	KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN NASIONAL POLITEKNIK NEGERI MEDIA KREATIF PROGRAM STUDI FOTOGRAFI	
TUGAS BAHSA INGGRIS SEMESTER GANJIL TAHUN AKADEMIK 2023/2024		
Mata Kuliah : English for Game Technology	Tingkat/Semester/Kelas : 3…………..	
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Project Title : Article about Artificial Intelligence

Study Program : **Game Technology**

Deadline : **Mid-Test**

List of Activities in ESP for Game Technology Business
1.   Short Article about Photography
2.   Build 5W1H Questions
3.   Verbal and Nominal Sentences
4.   Tenses and It's Pattern
5.   Active and Passive Construction
6.   List of Vocabulary
7.   Translation into Indonesia
8.   Reasons Why Writer Uses Tenses

A.   5W1H Questions
Instruction: Referring to the article you have, please build each two examples of your sentences Question and Answer based on 5W1H (Who, What, Where, Why, When, How).

CLUES FOR BUILDING SENTENCES		
WH	Meaning	Example

Who	Person	Who is your favorite idol in Animation Business?
What	Things, Ideas, Information, Action	What are you bringing in bag? (Thing) What are you thinking about Animation Business? (Idea) What kind of Animation Book do you wish to buy? (Info) What are you doing with Animation Business? (Action)
Where	Place	Where is my book entitled Guide to Animation Book?
Why	Reason	Why did you bring that animation book?
When	Time	When is his son's birthday?
Which	Choice	Which design style of academic book do you like more?
Whose	Possession	Whose book on the table?
How	Manner	How did you convince customer about animation business? How do you choose a book cover? How do you make an attractive book cover?
How many	Quantity	How many animation books does she have?
How much	Quantity	How many animation book do you need?
How often	Frequency	How often do you read books?

How far	Distance	How far is it from your house to the campus?
How old	Age	How old are you? How long Duration? How long will the test be?

SENTENCE BUILDING

No	WH	Sentence Building (Question and Answer)
1	Who	Who are the researchers who use AI?
	Answer	Many researchers, computer scientists, and software engineers around the world are working in the field of AI. Big tech companies like Google, Microsoft, and IBM also have strong AI teams.
2	What	What is AI?
	Answer	AI is a field of computer science concerned with the development of computers and systems that can learn, think, and make decisions similar to humans.
3	Where	Where is AI used?
	Answer	AI is used in various sectors and industries around the world. This includes research laboratories, hospitals, the automotive industry, e-commerce businesses, gaming, and more
4	Why	Why is game tech a good choice for beginners?
	Answer	game tech is a good choice for beginners because it does not require coding knowledge, has a large community of users, and offers various resources and plugins to enhance the game development experience
5	Why	Why does AI continue to be developed?

	Answer	AI development has many goals, including increasing efficiency in various industries, solving complex problems, making sense of big data, and providing intelligent solutions to various challenges.
6	When	When was the concept of AI discovered?
	Answer	The basic concepts of AI have been around since the 1950s. However, the development of computer technology and artificial intelligence has experienced a huge surge in recent years, especially since the 2010s.
7	How	How can AI developed?
	Answer	AI achieves its capabilities through various techniques such as machine learning, neural networks, deep learning, and natural language processing. AI learns from data, analyzes patterns, and makes predictions or decisions based on the information it receives. This technology uses algorithms and computing to extract meaning from data and act on this understanding

B.   Verbal and Nominal Sentences

Clues: Verbal sentences (V) are **those, which start with a verb**. Non-verbal sentences start with a noun or pronoun, or with derivative nouns. Verbal sentences consist of a verb + subject + object or adverbial phrase. The subject and object can be either nouns or pronouns. Nominal sentence (N) also known as equational sentence is **a linguistic term that refers to a nonverbal sentence (i.e. a sentence without a finite verb).** As a nominal sentence does not have a verbal predicate, it may contain a nominal predicate, an adjectival predicate, in Semitic languages also an adverbial predicate or even a prepositional predicate.

1.   Verbal Sentences

No	Sentences	A/P
01	Researchers are constantly exploring new AI algorithms and applications	**A**

02	Artificial intelligence is shaping the future of healthcare by diagnosing diseases more accurately	P
03	Machine learning algorithms process vast amounts of data to make AI systems smarter.	A
04	AI technology is revolutionizing the automotive industry with self-driving cars.	P
05	Companies are investing heavily in AI research to gain a competitive edge	A
06	AI-driven chatbots provide customer support around the clock.	P
07	Programmers are coding AI systems to optimize complex tasks	A
08	AI is helping businesses analyze big data for insights and decision-making	P

2. Nominal Sentences

No	Nominal Sentences
01	The advancement of AI has transformed various industries
02	AI's impact on healthcare is remarkable, particularly in disease diagnosis.
03	AI's ability to process vast datasets is a game-changer for analytics
04	The adoption of AI in autonomous vehicles is reshaping the automotive sector
05	The investment in AI research is a strategic move for many companies.
06	The utilization of AI-driven chatbots enhances customer support.

07	The development of AI systems is vital for optimizing complex tasks
08	AI's role in data analysis is critical for informed decision-making.
09	Integration of AI in different sectors is becoming increasingly common

3. **Active and Passive Construction**

Clues: Active sentence is a sentence where the subject performs the action of the verb. For example: John kicked the ball. ("John" is the subject. "John" is performing the action of the verb "kick." Therefore, this is an active sentence.) An active sentence is the opposite of a passive sentence. In a passive sentence, the action of the main verb is done to the subject. The passive voice occurs when the person or thing that performs an action is not the grammatical subject of the sentence. Instead, the person or thing that receives the action is placed before the verb. Passive sentences are formed using the verb to be combined with a past participle.

	Sentences	Active	Passive
	Computer scientists develop artificial intelligence (AI) to improve computers' ability to understand and respond to information	V	
	Artificial intelligence (AI) is developed by computer scientists to improve computers' ability to understand and respond to information.		V

		Technology companies like Google utilize AI to develop virtual assistants that can help users carry out daily tasks.	V	
		Virtual assistants that can help users carry out daily tasks are developed using AI by technology companies such as Google.		V
		Artificial intelligence (AI) was developed by computer scientists to improve computers' ability to understand and respond to information.		V
		Computer scientists developed artificial intelligence (AI) to improve computers' ability to understand and respond to information.	V	
		Virtual assistants that can help users carry out daily tasks are developed using AI by technology companies such as Google		V
		Technology companies like Google utilize AI to develop virtual assistants that can help users carry out daily tasks.	V	
		Programmers develop artificial intelligence systems to improve software performance	V	
		Artificial intelligence systems have been developed by programmers to improve software performance.		

	Researchers use artificial intelligence technology to design new algorithms	V	
	Artificial intelligence technology is used by researchers to design new algorithms.		V
	Artificial intelligence systems have been developed by programmers to improve software performance		V
	Programmers have developed artificial intelligence systems to improve software performance.	V	
	Latest AI products have been launched by IT companies to meet market needs		V
	IT companies have launched the latest AI products to meet market needs.	V	

4. List of Vocabulary

	Vocabulary	Pronoun Spelling	Meaning
	Imagination	iˌmajəˈnāSH(ə)n	Imajinasi
	Franchise	franˌCHīz	Waralaba
	Development	dəˈveləpmənt	Perkembangan

	Asset	ˈaset	Aset
	platform	ˈplatfôrm	platform
	expertise	ˌekspərˈtēz	keahlian
	explore	ikˈsplôr	mengeksplo rasi
	community	kəˈmyo͞on ədē	Komunitas
	game	gām	Permainan

5. **Tenses and It's Pattern**

Please identify the tenses of ten sentences you take from the article. Learn the matrix clues below.

N o	Sentence	Tenses
0 1	AI (Artificial Intelligence) is an advanced technology that is changing our world. This allows computers to learn, think, and make decisions. AI is used in everyday applications, such as smartphones, web search, and social media. It continues to develop and become more integrated in our lives. With AI, computers can become smarter and help us in various tasks	Simple Present

		AI (Artificial Intelligence) (S) is (to be) an advanced (adjective) technology that is changing our world. This allows computers to learn, think, and make decisions (Object) . AI is used in everyday applications, such as smartphones, web search, and social media. It continues to develop and become (verb1) more integrated in our lives. With AI, computers can become smarter and help us (object) in various tasks	
0 2		AI is an intelligent technology that helps us in various activities. It understands data, makes decisions, and provides

solutions. AI is increasingly developing and being widely used in everyday life, making many things more efficient | Simple Present |
		AI is an intelligent technology (S) that helps (Verb) us (Object) in various activities. It (S) understands data, makes decisions, and provides solutions (Object). AI (S) is increasingly (Adverb) developing and being widely (Adverb) used in everyday life, making many (Adjective) things more efficientv	
0 3		Artificial Intelligence (AI) improves our lives. It helps with tasks like voice recognition, search engines, and personal assistants. AI is becoming smarter over time and is used in various applications. It's changing the way we interact with technology and making our daily lives more convenient	Simple Present
		Artificial Intelligence (AI) (S) improves (Verb) our lives. It helps (verb) with tasks like voice recognition, search engines, and personal assistants. AI (Subject) is becoming smarter over time and is used in various applications. It's changing the way we interact with technology (Object) and making our daily lives more convenient (Ajective)	

4	AI is an intelligent technology that is widely used today. AI helps in a variety of applications, including internet search, personal assistants, and voice recognition. AI continues to develop and become more rational in processing information, making it very useful in the modern world	Simple Present
	AI (S) is (to be) an intelligent technology that is widely (adverb) used today. AI helps in a variety of applications, including internet search, personal assistants, and voice recognition. AI continues to develop and become more rational in processing (verb) information, making it very useful in the modern world	
5	AI is a technology that is changing the way we live. This helps with a variety of things, such as online searches, product recommendations, and even autonomous vehicles. AI continues to develop and influence many aspects of our lives	Simple Present
	AI (S) is (to be) a technology that is changing (Verb-ing) the way we live. This helps (verb) with a variety of things, such as online searches, product recommendations, and even autonomous vehicles. AI (S) continues to develop and influence many aspects of our lives (Object)	
6	AI (Artificial Intelligence) plays an important role in today's technology. It is used in everyday applications such as web searches, online shopping recommendations, and virtual assistants. AI continues to develop and get smarter over time. It helps us in voice recognition, facial recognition, and even autonomous driving. More and more people and companies are developing AI to understand data and provide intelligent solutions. AI is changing the way we interact with technology.	Simple Present

		AI (Artificial Intelligence) (S) plays (Verb) an important role in today's technology (O). It is used in everyday applications such as web searches, online shopping recommendations, and virtual assistants (O)(MC). AI (S) continues to develop and get smarter over time. It helps us in voice recognition, facial recognition, and even autonomous driving. More and more people and companies are developing AI to understand data and provide intelligent solutions. AI is changing the way we interact with technology.	
7		AI is an increasingly important computer technology. AI is used in many applications, including virtual assistants, data analysis, and gaming. It continues to evolve and change the way we interact with technology. AI helps automate tasks and provides intelligent solutions. Many companies and researchers are focusing on developing AI. AI is increasingly commonly used in everyday life.	Simple Present
		AI (S) is (to be) an increasingly important computer technology (O) . AI (S) is used (V) in many applications, including virtual assistants, data analysis, and gaming (O) . It continues to evolve and change the way we interact with technology. AI (S) helps (V) automate tasks and provides intelligent solutions (O). Many companies (S) and researchers are focusing (V) on developing AI (O). AI (S) is increasingly commonly used in everyday life (MC).	
8		AI is an intelligent technology that is changing the world. It understands data, makes decisions, and solves problems. We use AI in online search, smart homes, and autonomous cars. AI continues to develop and help us every day.	Simple Present
		AI (S) is (V) an intelligent technology (O) that is changing the world. It understands data, makes decisions, and solves (V) problems (MC). We (S) use (V) AI (O) in online search, smart homes, and	

	autonomous cars (MC) . AI (S) continues (V) to develop and help us (O) every day (MC).	

Kecerdasan Buatan (AI) telah memainkan peran yang semakin penting dalam industri game selama beberapa tahun terakhir. Dalam artikel ini, kita akan menjelajahi bagaimana AI telah mengubah cara kita bermain game, membantu dalam pengembangan game, dan meningkatkan pengalaman bermain.

Siapa, Apa, dan Bagaimana AI Digunakan dalam Game?

1. AI Pemain

Salah satu cara paling mencolok di mana AI digunakan dalam game adalah untuk mengendalikan karakter non-pemain (NPC) atau musuh dalam game. AI pemain bertanggung jawab untuk membuat NPC berperilaku cerdas, bereaksi terhadap tindakan pemain, dan memberikan tantangan yang sesuai. Contoh-contoh termasuk AI musuh dalam game tembak-menembak yang bisa bersembunyi, menyerang dengan taktik, dan menghindari serangan pemain.

2. AI Pencitraan

AI digunakan untuk meningkatkan kualitas visual dalam game. Teknik pencitraan berdasarkan AI seperti ray tracing membantu menciptakan pencahayaan, bayangan, dan efek visual yang lebih realistis, menciptakan pengalaman visual yang lebih mendalam dan imersif.

3. AI Proses Pembuatan Game

AI juga digunakan dalam proses pengembangan game. Pengembang dapat menggunakan algoritma pembelajaran mesin untuk menciptakan dunia game yang lebih dinamis, menciptakan alur cerita yang adaptif, dan mengotomatisasi tugas-tugas repetitif seperti pengujian game.

4. AI Kesesuaian Diri

AI dapat mengadaptasi permainan berdasarkan preferensi pemain. Sistem kecerdasan buatan dapat mengamati perilaku pemain, mengidentifikasi gaya bermain, dan menyesuaikan kesulitan permainan secara otomatis sehingga pemain merasa tertantang namun tidak terlalu sulit.

5. AI Pembelajaran Mesin

Algoritma pembelajaran mesin membantu AI dalam game memahami pola permainan dan memprediksi tindakan pemain. Ini memungkinkan AI untuk memberikan rekomendasi yang lebih cerdas dan mendalam kepada pemain, seperti rekomendasi item atau taktik yang sesuai.

Manfaat Kecerdasan Buatan dalam Game

1. Peningkatan Pengalaman Bermain

AI membantu menciptakan pengalaman bermain yang lebih realistis dan menarik dengan musuh cerdas, dunia yang hidup, dan reaksi yang lebih realistis terhadap tindakan pemain.

2. Efisiensi Pengembangan Game

Dengan otomatisasi tugas-tugas pengembangan seperti penciptaan konten, pengujian, dan debug, AI memungkinkan pengembang untuk merilis game dengan biaya dan waktu yang lebih efisien.

3. Kesesuaian Pemain

AI memungkinkan permainan untuk mengakomodasi berbagai tingkat keahlian pemain dan preferensi bermain, sehingga lebih banyak orang dapat menikmati permainan.

4. Peningkatan Visual

Teknologi AI seperti ray tracing membantu menciptakan grafis yang memukau dan mengangkat kualitas visual game.

5. Inovasi Game

AI memungkinkan pengembang untuk menciptakan konsep game baru yang mengandalkan interaksi cerdas antara pemain dan karakter dalam game.

Kesimpulan Kecerdasan Buatan telah membawa transformasi luar biasa dalam industri game. Ini telah meningkatkan kualitas permainan, menghemat waktu dan biaya pengembangan, serta menciptakan pengalaman bermain yang lebih adaptif dan mendalam. Seiring dengan perkembangan teknologi AI, kita dapat berharap melihat inovasi yang lebih banyak dan pengalaman bermain yang semakin menarik dalam masa depan.