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BSCS 700P

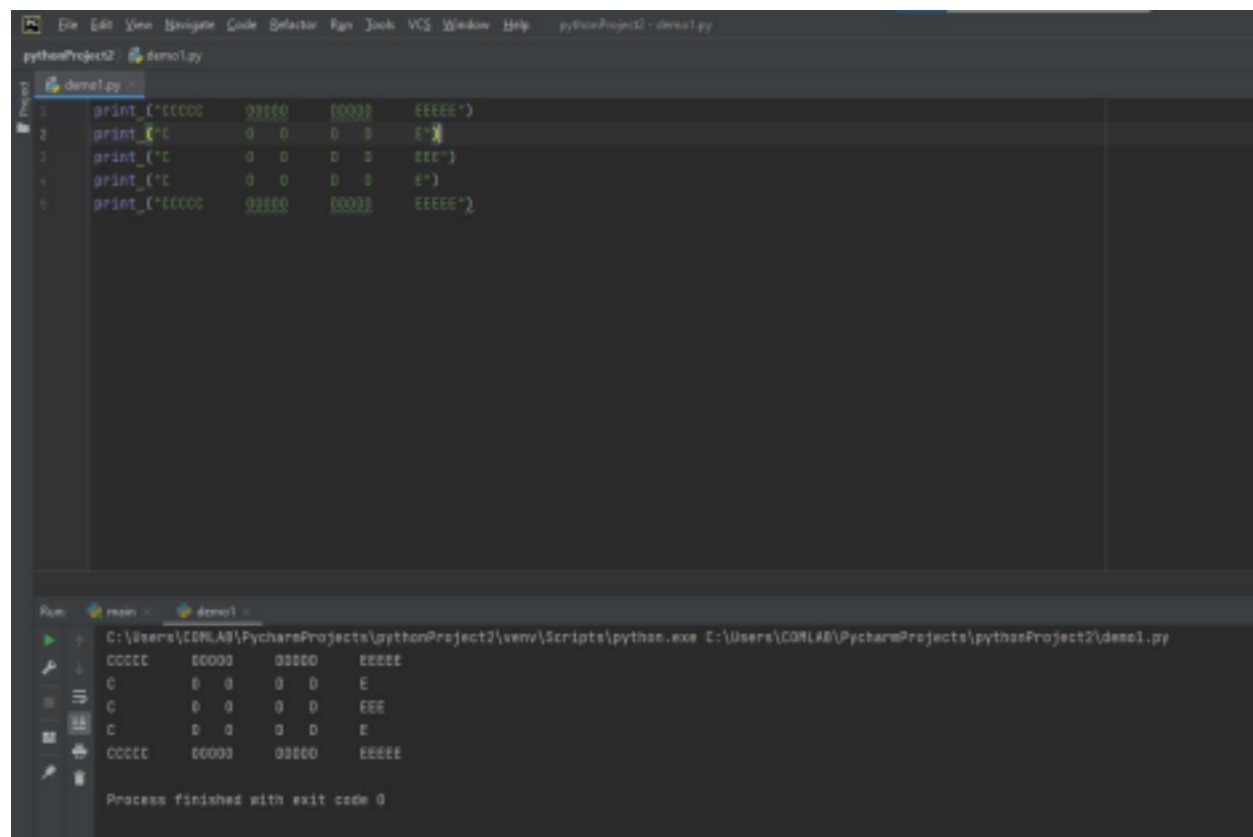
Problem 1. Using Print Statement

Write a program that showcases a pattern of the word "CODE" using the letters C, O, D, and E.

Sample Output 1

```
CCCCC  OOOOO  DDDDD  EEEEE
C      O  O  D  D  E
C      O  O  D  D  EEE
C      O  O  D  D  E
CCCCC  OOOOO  DDDDD  EEEEE
```

My Code:



```
pythonProject2 - demo1.py
pythonProject2 demo1.py
1 print_('CCCCC  OOOOO  DDDDD  EEEEE')
2 print_('C      O  O  D  D  E')
3 print_('C      O  O  D  D  EEE')
4 print_('C      O  O  D  D  E')
5 print_('CCCCC  OOOOO  DDDDD  EEEEE')
```

Run: main - demo1 -

```
C:\Users\COMLAB\PycharmProjects\pythonProject2\venv\Scripts\python.exe C:\Users\COMLAB\PycharmProjects\pythonProject2\demo1.py
CCCCC  OOOOO  DDDDD  EEEEE
C      O  O  D  D  E
C      O  O  D  D  EEE
C      O  O  D  D  E
CCCCC  OOOOO  DDDDD  EEEEE

Process finished with exit code 0
```

Problem 2. Using Escape Sequence. Use only 1 print statement for this output

Create a program that prints the following text:

```
Database Record
////////////////////
Name:      John Doe
Email:     john.doe@example.com
University: ABC University
```

Sample Output 1

```
Database Record
////////////////////
Name:      John Doe
Email:     john.doe@example.com
University: ABC University
```

2.

```
1 print("Database Record\n////////////////////\nName:\t\t Justine
   Bryle\nEmail:\t\t jreyes24-0144@cca.edu.ph\nUniversity:\t CCA University")
```

```
Database Record
////////////////////
Name:      Justine Bryle
Email:     jreyes24-0144@cca.edu.ph
University: CCA University
```

3.

Problem 3. Input Operations

Item Description

Write a program that prompts the user to enter the recipient, message, name, subject, version, discount, status, code, location, age, company name, website, phone, job title, and department. Display the entered values directly on the console in a specific format simulating an email.

```
Dear [Recipient], I hope this email finds you well.  
[Message]  
Subject: [Subject]  
Sender: [Name]  
Version: [Version]  
Discount: [Discount]%  
Status: [Status]  
Code: [Code]  
Location: [Location]  
Age: [Age]  
Company: [Company Name]  
Website: [Website]  
Phone: [Phone]  
Job Title: [Job Title]  
Department: [Department]
```

```
1 recipient = input("Enter the Recipient: ")
2 message = input("Enter the message: ")
3 name = input("Enter the name: ")
4 subject = input("Enter the subject: ")
5 version = float(input("Enter the version: "))
6 discount = input("Enter the discount: ")
7 status = input("Enter the status: ")
8 code = input("Enter the code: ")
9 location = input("Enter the location: ")
10 age = int(input("Enter the age: "))
11 company_name = input("Enter the Company Name: ")
12 website = input("Enter the website: ")
13 phone = input("Enter the phone: ")
14 job_title = input("Enter the job title: ")
15 department = input("Enter the department: ")
16
17 print("\nDear {recipient}, I hope this email finds you well.")
18 print(f"[message]")
19 print(f"Subject: {subject}")
20 print(f"Sender: {name}")
21 print(f"Version: {version}")
22 print(f"Discount: {discount}%")
23 print(f"Status: {status}")
24 print(f"Code: {code}")
25 print(f"Location: {location}")
26 print(f"Age: {age}")
27 print(f"Company Name: {company_name}")
28 print(f"Website: {website}")
29 print(f"Phone: {phone}")
30 print(f"Job Title: {job_title}")
31 print(f"Department: {department}")
```

```
Enter the Recipient: Bryle
Enter the message: Good Evening to you!
Enter the name: Justine
Enter the subject: Proposal
Enter the version: 1.2
Enter the discount: 10.5
Enter the status: A
Enter the code: ABC234
Enter the location: Planet Jupiter
Enter the age: 19
Enter the Company Name: XYZ
Enter the website: www.xyz.com
Enter the phone: 098-765-4321
Enter the job title: Manager
Enter the department: Sales

Dear Bryle, I hope this email finds you well.
Good Evening to you!
Subject: Proposal
Sender: Justine
Version: 1.2
Discount: 10.5%
Status: A
Code: ABC234
Location: Planet Jupiter
Age: 19
Company Name: XYZ
Website: www.xyz.com
Phone: 098-765-4321
Job Title: Manager
Department: Sales
```

Problem 4. Using Placeholders with % specifier 4.

```
main.py  [Icons] [Share] [Run] Output
1 content = "Exciting news! Our new product is launching soon."
2 date = "2025-08-28"
3 time = "10:00 AM"
4 reach = 2500.50
5 engagement = 0.75
6 duration = 1.50
7 cost = 50.25
8 category = "N"
9 status = "S"
10 author_name = "Justine Bryle R Reyes"
11 author_email = "jreyes24-0144@example.com"
12 platform = "Facebook"
13 audience = "targeted"
14 budget = 1000.00
15
16 print("Post Scheduled:")
17 print(f"Content: {content}")
18 print(f"Date: {date}")
19 print(f"Time: {time}")
20 print(f"Reach: {reach:.2f}")
21 print(f"Engagement: {engagement:.2f}")
22 print(f"Duration: {duration:.2f}")
23 print(f"Cost: {cost:.2f}")
24 print(f"Category: {category}")
25 print(f"Status: {status}")
26 print(f"Author Name: {author_name}")
```

```
Post Scheduled:
Content: Exciting news! Our new product is launching soon.
Date: 2025-08-28
Time: 10:00 AM
Reach: 2500.50
Engagement: 0.75
Duration: 1.50
Cost: 50.25
Category: N
Status: S
Author Name: Justine Bryle R Reyes
Author Email: jreyes24-0144@example.com
Platform: Facebook
Audience: Targeted
Budget: 1000.00

--- Code Execution Successful ---
```

5.

Problem 5. Type Casting

Item Description

Write a program that takes two numbers (one integer and one float) and take their difference after converting the integer to a float. Finally, print the result in format **"The difference is: {result}"**.

Sample Output 1

```
Enter an integer: 5
Enter a float: 3.14
The difference is: 1.86
```

Sample Output 2

```
Enter an integer: 90
Enter a float: 5.2321
The difference is: 84.77
```

main.py		Run	Output
<pre>1 integer_num = int(input("Enter an Integer: ")) 2 float_num = float(input("Enter a float: ")) 3 4 integer_as_float = float(integer_num) 5 6 difference = abs(integer_as_float - float_num) 7 8 print(f"The difference is: {difference:.2f}")</pre>			<pre>Enter an Integer: 6 Enter a float: 89.999 The difference is: 84.00 === Code Execution Successful ===</pre>