

## **Program 1:**

### **#string with single quotes**

```
string1='welcome to the AI Class'
print("String with the use of single quotes")
print(string1)
```

### **#string with double quotes**

```
string2="welcome to the AI Class"
print("String with the use of double quotes")
print(string2)
```

### **#string with triple quotes**

```
string3="""welcome to the AI Class"""
print("String with the use of triple quotes")
print(string3)
```

### **#string with triple quotes allows multiple lines**

```
string3="""welcome
to the AI
Class"""
print("String with the use of triple quotes allows multiple lines")
print(string3)
```

## **Output:**

## **Program 2:**

### **#Access characters of String**

```
String1 = "ArtificialIntelligence"
print("Initial String: ")
```

```
print(String1)
# Printing First character
print("\nFirst character of String is: ")
print(String1[0])
# Printing Last character
print("\nLast character of String is: ")
print(String1[-1])
```

### **Output:**

### **Program 3:**

#### **#String Slicing:**

```
MyString='Learn Python'
print(MyString[0:5])
print(MyString[-12:-7],"\n")
print(MyString[6:])
print(MyString[:-7],"\n")
print(MyString[:])
```

### **Output:**

### **Program 4:**

#### **#String Concatenation:**

```
text_1='learn'
text_2='python'
MyString= text_1+text_2
print(MyString)

MyString= text_1+" "+text_2
print(MyString)
```

**Output:**

**Program 5:**

```
#print datatype complex
```

```
c=2+4j
```

```
print(type(c))
```

**Output:**

**Program 6:**

```
#print datatype integer
```

```
a=5
```

```
print(type(a))
```

**Output:**

**Program 7:**

```
#print datatype float
```

```
a=5.7
```

```
print(type(a))
```

**Output:**

**Program 8:**

```
#lab TASK 2
```

```
name = "Ahmad" # String
```

```
roll_no = 615 # Integer
```

```
cgpa = 3.99 # Float
```

```
print("Name:", name)
```

```
print("Roll Number:", roll_no)
```

```
print("CGPA:", cgpa)
```

```
print("Type of name:", type(name))
```

```
print("Type of roll_no:", type(roll_no))
```

```
print("Type of cgpa:", type(cgpa))
```

### **Output:**

### **Program 9:**

#### **#taking user input**

```
name = input("Enter your name: ") # String input
```

```
roll_no = int(input("Enter your roll number: ")) # Integer input
```

```
cgpa = float(input("Enter your CGPA: ")) # Float input
```

```
print("\nName:", name)
```

```
print("Roll Number:", roll_no)
```

```
print("CGPA:", cgpa)
```

```
print("\nType of name:", type(name))
```

```
print("Type of roll_no:", type(roll_no))
```

```
print("Type of cgpa:", type(cgpa))
```

**Output:**