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## Class\_Activity\_01

1. Write a Python program that declares three variables: name, age, and country, and then prints them out in a single sentence.

```
In [4]: # Declare the variables
   name = "Azmiya"
   age = 23
   country = "Pakistan"

# Print them out in a single sentence
   print("My name is", name, "I am", age, "years old and I come from", country, ".")
```

My name is Azmiya I am 23 years old and I come from Pakistan .

2. Write a program that prompts the user for their name and then greets them.

```
In [5]: # Prompt the user for their name
    name = input("What is your name? ")

# Greet the user
    print("Hello", name,"! Nice to meet you.")

What is your name? Azmiya Fida
Hello Azmiya Fida ! Nice to meet you.
```

3. Display the result of 7 multiplied by 8 using the print() function.

```
In [6]: result = 7 * 8
print(result)
```

4. Ask the user for an input, store it in a variable, and then display its data type.

```
In [1]: # Ask the user for input
    user_input = input("Hi, HOw are you? ")

# Display the data type of the input
    data_type = type(user_input)
    print("The data type of your input is: ",data_type)

Hi, HOw are you? I'm fine!
    The data type of your input is: <class 'str'>
```

5. Given a variable x = 10, use an assignment operator to increase its value by 5.

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```
In [2]: x = 10
x += 5 # This is equivalent to x = x + 5
print(x) # This will print the updated value of x, which is 15
15
```

## 6. Create a program that checks if a number is both greater than 10 and divisible by 2.

```
In [3]: # Ask the user for a number
        num = int(input("Enter a number: "))
        # Check if the number is greater than 10 and divisible by 2
        if num > 10 and num % 2 == 0:
            print(num, "is greater than 10 and divisible by 2.")
            print(num, "does not meet both conditions.")
        Enter a number: 25
        25 does not meet both conditions.
In [7]: # Ask the user for a number
        num = int(input("Enter a number: "))
        # Check if the number is greater than 10 and divisible by 2
        if num > 10 and num % 2 == 0:
            print(num, "is greater than 10 and divisible by 2.")
        else:
            print(num, "does not meet both conditions.")
        Enter a number: 2
        2 does not meet both conditions.
```

## 7. Write a program that prompts the user for an age and checks if they are younger than 20 or older than 60.

```
In [8]: # Prompt the user for their age
    age = int(input("Please enter your age: "))

# Check if the age is Less than 20 or greater than 60
    if age < 20:
        print("You are younger than 20 years old.")
    elif age > 60:
        print("You are older than 60 years old.")
    else:
        print("You are between 20 and 60 years old.")

Please enter your age: 23
    You are between 20 and 60 years old.
```