## **Assignment 1**

## Variables and DataTypes

## **Executable Code:**

```
age = 25
print("Age:", age)
height = 5.9
print("Height:", height)
name = "Om"
print("Name:", name)
is student = True
print("Is Student?", is_student)
# List - Ordered, Mutable
grades = [90, 85, 92, 88]
print("Grades:", grades)
coordinates = (3, 4)
print("Coordinates:", coordinates)
hobbies = {"reading", "traveling", "coding"}
print("Hobbies:", hobbies)
person = {"name": "Alice", "age": 30, "city": "New York"}
print("Person:", person)
result = None
print("Result:", result)
# Type Conversion
x = 5
y = str(x)
print("x as string:", y)
```

```
user name = input("Enter your name: ")
print("Hello,", user name)
is adult = age >= 18
print("Is Adult?", is adult)
num1 = 10
num2 = 3
sum result = num1 + num2
print("Sum:", sum result)
greeting = "Hello"
sentence = greeting + " " + name
print("Greeting Sentence:", sentence)
formatted sentence = f"{name} is {age} years old."
print("Formatted Sentence:", formatted sentence)
if is adult:
   print(f"{user name} is an adult.")
else:
  print(f"{user name} is not an adult.")
```

## **Output:**

Age: 25

Height: 5.9

Name: Om

Is Student? True

Grades: [90, 85, 92, 88]

Coordinates: (3, 4)

**Hobbies: {'reading', 'traveling', 'coding'}** 

Person: {'name': 'Alice', 'age': 30, 'city': 'New York'}

**Result: None** 

x as string: 5

**Enter your name:**