PYTHON ASSIGNMENT- 01

Q1.Print hello world ?

Ans:- print("Hello World")

OUTPUT -→ Hello World

Q2. Describe local variable and global variable code ?

Ans:- In Python, variables can be classified as local or global based on their scope:

Local Variable

A local variable is declared inside a function and can only be accessed within that function. It exists only during the function's execution.

Global Variable

A global variable is declared outside any function and can be accessed throughout the program, including inside functions (if not shadowed by a local variable of the same name).

```
# Global Variable
global_var = "I am global"


def my_function():
    # Local Variable
    local_var = "I am local"
    print(local_var)  # Accessing local variable
    print(global_var)  # Accessing global variable
```

 # Calling the function

my_function()

 # Accessing the global variable outside the function

print(global_var)

 # Trying to access the local variable outside its scope (this will cause an error)

 # print(local_var)

Q3. Write a code that describe Indentation error ?

Ans:- CASE(i)

```
def say_hello():
print("Hello, World!")  # This line is not indented properly
```

CASE(ii)

```
def say_hello():
    print("Hello, World!")  # Properly indented
```

Q4. write a code that describe local and global variable with same name ?

Ans:-

```
# Global variable
```

```
name = "Global Name"

def demonstrate_scope():
    # Local variable with the same name as the global variable
    name = "Local Name"
    print("Inside the function, name is:", name)  # Accesses the local variable

# Call the function
demonstrate_scope()

# Outside the function, the global variable is accessed
print("Outside the function, name is:", name)
```

OUTPUT→

```
Inside the function, name is: Local Name
Outside the function, name is: Global Name
```

Q5. Write a code for string, int and float input ?

Ans:- CODE

```
name = input("Enter your name: ")
age = int(input("Enter your age: "))
height = float(input("Enter your height: "))
```

```
# Output the inputs
print(f"Name: {name}, Age: {age}, Height: {height}")
```

OUTPUT→

```
Enter your name: Deepak
Enter your age: 23
Enter your height: 6.1
```