### **Assignment -2**

## Q1. How do you comment code in Python? What are the different types of comments?

**Ans1.** In Python comments are these lines that are ignored by the compiler during the execution. There are two types of comments in Python.

- 1. **Single Line commet-** In python single lines comments are provided by using hash( # ).
- 2. **Multiline comment-** In python multilines comment are provide using three single("") or double queots(""").

## Q2. What are variables in Python? How do you declare and assign values to variables?

Ans2.

#### Variable

Variable are the place name of memory that are hold the value of any types of value as – string, complex, Integer etc.

In Python we can declare a variable by difining a name and assign a value using = sign.

Example-

my list=[1,2,3,4,5,6,7,"Tej pal"]

# Q3. How do you convert one data type to another in Python? Ans3.

Using typecasting we can convert one data type to another.

Example-

age = "19" # In this string are stored
correct age = int(age) # In this line we convert sring in Integer value.

## Q4. How do you write and execute a Python script from the command line?

To run Python scripts with the python command, you need to open a command-line and type in the word python, or python3 if you have both versions, followed by the path to your script

Q5. Given a list my\_list = [1, 2, 3, 4, 5], write the code to slice the list and obtain the sub-list [2, 3].

### Ans5.

My\_list=[1,2,3,4,5]
Print(my\_list[1:3])

## Q6. What is a complex number in mathematics, and how is it represented in Python?

**Ans6.** Numbers that are represented in form of a+bi is called Complex number.where a,b are the real number and i is an imaginary numbers.

In python complex variable are represented in form of a+bj

Example-

Complex\_Num=5+9j

Q7. What is the correct way to declare a variable named age and assign the value 25 to it?

Ans7.

Q8. Declare a variable named price and assign the value 9.99 to it. What data type does this variable belong to?

Ans8.

Price=9.99

Print(type(price))

Output-

float

Q9. Create a variable named name and assign your full name to it as a string. How would you print the value of this variable?

Ans9.

name="Tej pal"

print(name)

Tej pal

output-

Q10. Given the string "Hello, World!", extract the substring "World".

Ans10.

String="Hello, world"

Print(String[7:12])

Q11. Create a variable named "is\_student" and assign it a boolean value indicating whether you are currently a student or not.

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Ans11.

Is_student=True

If(is_student):
    Print("Yes You are currently student")

else:
    print("You are not a student")
```