


```
print(x_float) # Output: 10.0
print(y_int) # Output: 4
```

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

Answer :

To write and execute a Python script from the command line, you can follow these steps:

- 1) First write a python code in note pad or python idle
- 2) Save this code in .py format in desktop
- 3) Open the command prompt type

Cd desktop

Python filename.py

Example :

```
print("Hello, World!")
```

```
cd Desktop
```

```
python print.py
```

```
Hello,World
```

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]`.

Answer :

To obtain the sub-list `[2, 3]` from the given list `list = [1,2,3,4,5]`, you can use slicing in Python.

```
my_list = [1, 2, 3, 4, 5]
sub_list = my_list[1:3]

print(sub_list)
```

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

Answer :

In mathematics, a complex number is a number that comprises both a real part and an imaginary part. It is written in the form $a + bi$ where a represents the real part, b represents the imaginary part, and i represents the imaginary unit

```
z1 = 3 + 2j
```

```
z2 = -1.5 + 0.5j
z3 = 2j
type(z1)
```

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

To declare a variable named age and assign the value 25 to it in Python, you would use the following syntax:

```
age = 25
print(age)

output: 25
```

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

Answer:

To declare a variable named price and assign the value 9.99 to it in Python

```
price = 9.99
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?

Answer :

```
name = "pratish chandu khurdamoje "
print(name)

#output : pratish chandu khurdamoje
```

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

Answer :

```
name = "Hello,World"
name[6:]

#output : world
```

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

Answer :

```
is_student = True
type(is_student)

#output = boolean
```