

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

#Answer :-

In python we use "#" to write a comment in python. It is basically used for improve the readability of the code in future

Ther are two types of comment in python

single line comment >> It is write in "#"

Multiple line comment >> It is write in the from of doc string i.e. """ """

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

#Answer :-

variable are simply a placeholder or container in python

Declare and assigning a variable

a = 50

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

#Answer :-

a = "123" # converting string to int

b = int(a)

b

123

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

#Answer :-

#Open a text editor (e.g., Notepad, VS Code, Sublime Text).

#Write Python code. For example, we can write a simple script like this:

print("Hello, World!")

#Save the file with a .py extension, for example, hello.py.

#Execute the Python Script from the Command Line

#Open the command line interface (CLI). This can be:

#Command Prompt (cmd) on Windows

#Terminal on macOS or Linux

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 :-

my_list = [1, 2, 3, 4, 5]

my_list[1:3]

[2, 3]

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

#Answer :- Complex no is basically sum of real and imaginary no

c = 3 +4j

c.real

3.0

c.imag

4.0

```
c.conjugate()
```

```
↵ (3-4j)
```

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

Answer :-

```
age = 25
```

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

#Answer :-

```
price = 9.99  
type(price)
```

```
↵ 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 = "somnath Giri"  
print(name)
```

```
↵ somnath Giri
```

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

#Answer:-

```
str = "Hello, World!"  
str[7:]
```

```
↵ '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  
print(is_student)
```

```
↵ True
```

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