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Task :

1. What is a variable?

Answer :

In Python, variables need not be declared or defined in advance, as is the case in many other programming languages. To create a variable, you just assign it a value and then start using it. Assignment is done with a single equals sign (=).

2. When should we use """ (tripe quotes) to define strings?

Answer :

- We can use triple quotes to create a multi-line string.
- Triple quotes are used to span multiple lines, and they also serve as docstrings. Docstring is basically a convenient way of associating documentation with Python modules.
- Multi-line comments can also be created using triple quotes.

3. Assuming (name = "John Smith"), what does name[1] return?

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#Answer:

name = "John Smith"
print(name[1])

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4. What about name[-2]?

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#Answer:

name = "John Smith"
print(name[-2])

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```

5. What about name[1:-1]?

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#5. What about name[1:-1]?

#Answer:

name = "John Smith"
print(name[1:-1])
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6. How to get the length of name?

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#Answer:

name = "John Smith"
str_len = len(name)
print(str_len)
```

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7. What is the result of f"{2+2}+{10%3}"?

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#Answer:

f = (2+2)+(10%3)
print(f)
```

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8. **What are the 3 types of numbers in Python?**

Answer :

There are three distinct numeric types: *integers*, *floating point numbers*, and *complex numbers*

9. **Write a program to get two number from user and print sum, difference, module, division and multiplication of the numbers, also show the type of the enter data.**

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```
#Answer:

valueOne = input('Enter First Number : ')
valueTwo = input('Enter Second Number : ')

add = (int(valueOne) + int(valueTwo))
sub = (int(valueOne) - int(valueTwo))
div = (int(valueOne) / int(valueTwo))
mul = (int(valueOne) * int(valueTwo))

data = type(valueOne)
data2 = type(valueTwo)
print("Addition : ",add , data,data2)
print("Substraction : ",sub)
print("Division : ",div)
print("Multiplication : ",mul)
```

```
Enter First Number : 2
Enter Second Number : 4
Addition :  6 <class 'str'> <class 'str'>
Substraction :  -2
Division :  0.5
Multiplication :  8
```