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Training Sessions

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Date	Sep-02-2024	Session No	1
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Topic : Python Basics - strings, list, for loop

```
main.py +
1 a = "6.567"
2 print()
3
4 print(type(a))
5
6 name = "tanishq"
7 print(type(name))
8 print(name[0:])
9 print(name[4])
10
11 print(name[-3])
12 print('-----')
13 print(100 + 2)
14
15 x = [2, 5, 7, 8, 10, 11, 13, 15]
16 y = 5
17
18 #print(type(x), len(x))
19 new_list = []
20 print('-----')
21 for value in x:
22     z = value*y
23     new_list.append(z)
24 print(new_list)

Ln: 1, Col: 1
```

Questions to try : Assignment

For Loop Questions:

1. Write a `for` loop to print the numbers from 1 to 5.
2. Use a `for` loop to print "Hello, World!" five times.
3. Write a program that uses a `for` loop to print the numbers 1 to 10 on the same line.
4. Write a `for` loop that prints the numbers 1, 2, 3, 4, and 5, but stops the loop when it reaches 3.
5. Use a `for` loop to print the first 5 multiples of 2 (i.e., 2, 4, 6, 8, 10).
6. Write a `for` loop that prints all the letters in the word "Python" one by one.
7. Create a program that uses a `for` loop to print the sum of numbers from 1 to 5.
8. Write a `for` loop to print each element of the list `['apple', 'banana', 'cherry']`.
9. Use a `for` loop to print the numbers from 10 down to 1.
10. Write a `for` loop to print only the even numbers from 1 to 10.

Basic String Questions:

1. Create a string `s = "Hello"`. Write a program to print this string.
2. Write a Python program to join two strings "Good" and "Morning" with a space in between.
3. Create a string variable `name = "John"`. Write a program to print the first letter of the name.
4. Write a program that converts the string "apple" to uppercase.
5. Create a string `s = "Python"`. Write a program to print the length of this string.
6. Write a program to combine the strings "First" and "Last" to form "FirstLast".
7. Create a string `s = "banana"`. Write a program to print the last letter of the string.
8. Write a program to check if the string "cat" is present in the string "caterpillar".
9. Create a string `s = "Hello"`. Write a program to print the string in reverse order.
10. Write a program to print each letter of the string "WORLD" on a new line.

END