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Training Sessions

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Date	Sep-02-2024	Session No	1D
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Topic : Python Basics - for loop

```

main.py +
1  #10, 12, 14, 16, ... 98, 100
2
3  # 100, 98, 96, ... 54, 52
4  # 200 to 300 odd numbers
5  # 201, 203, 205, 207, ... 297, 299
6
7  # 300 to 200 div by 5
8  # 300, 295, 290, 285, .. 205, 200
9  #for i in range(300, 199, -5):
10     #print(i)
11
12  list_items = ['pen', 'notebook', 'sketch pens', 'markers', 'pen holders']
13
14  count = 1
15  for item in list_items:
16      print(count, item)
17      count = count + 1
18
19  print()
20  print(list_items)
...
Ln: 36, Col: 1

```

main.py



```

22 '''
23 print(type(list_items))
24
25 for number in range(1, 10, 1):
26     print(number)
27
28 '''
29
30 # table of 5 from 1 to 10
31 num = 5
32
33 for i in range(1, 11):
34     print('5 x ', i, ' = ', num*i)
35
36
37 num = 10
38 for i in range(11, 21):
39     print('10 x ', i, ' = ', num*i)
40
41 print(''
```

Ln: 36, Col: 1

```

41 print(''
42 *
43 **
44 ***
45 ****
46 ''')
47
48 for i in range(5):
49     for j in range(i):
50         print('*', end=' ')
51     print()
52
53
54
55
56
```

Ln: 36, Col: 1

Questions to try : Assignment

Loops Questions:

1. Print the numbers from 1 to 10, but skip the number 7.
2. Print "Hello, World!" 11 times (since "Programming" has 11 letters).
3. Print the numbers from 1 to 10, but only print them if they are not divisible by 4.
4. Print the numbers 5, 4, 3, 2, 1.
5. Print the first 5 multiples of 3.
6. Print every other letter in the word "Python".
7. Print the factorial of 5 ($5 * 4 * 3 * 2 * 1$).
8. Print the names of fruits in a list like ['apple', 'banana', 'cherry'].
9. Print the numbers from 10 to 1, but only print the even numbers.
10. Print the even numbers from 1 to 20.

END