

SUNKOJU HARINI

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ANP_C7801

For Loop

1)Print the table of 5 using a for loop.

Ans:

```
for i in range(1, 11):  
    print(f"5 * {i} = {5 * i}")
```

Output:

```
>>>|  
==== RESTART: C:/Users/sunko/AppData/Local/Programs/Python/Python312/For.py ====  
5 * 1 = 5  
5 * 2 = 10  
5 * 3 = 15  
5 * 4 = 20  
5 * 5 = 25  
5 * 6 = 30  
5 * 7 = 35  
5 * 8 = 40  
5 * 9 = 45  
5 * 10 = 50  
\\>>>
```

2) Print even number series by taking input from the user:

Ans:

```
n = int (input ("Enter a number: "))  
for i in range (2, n+1, 2):  
    print (i)
```

Output:

Example 1:

```
>>>|  
===== RESTART: C:/Users/sunko/AppData/Local/Programs/Python/Python312/For.py =====  
Enter a number: 8  
2  
4  
6  
8  
>>>|
```

Example 2:

```
>>>|  
===== RESTART: C:/Users/sunko/AppData/Local/Programs/Python/Python312/For.py =====  
Enter a number: 52  
2  
4  
6  
8  
10  
12  
14  
16  
18  
20  
22  
24  
26  
28  
30  
32  
34  
36  
38  
40  
42  
44  
46  
48  
50  
52  
>>>|
```

3) Take a string from the user and iterate through its items using a for loop:

Ans:

Get the string from the user

```
user_string = input ("Enter a string: ")
```

Iterate through the characters of the string using a for loop

```
for char in user_string:
```

```
    print (char)
```

Output:

Example 1:

```
>>> ===== RESTART: C:/Users/sunko/AppData/Local/Programs/Python/Python312/For.py =====
Enter a string: HARINI SUNKOJU
H
A
R
I
N
I

S
U
N
K
O
J
U
>>>
```

Example 2:

```
>>>|
===== RESTART: C:/Users/sunko/AppData/Local/Programs/Python/Python312/For.py =====
Enter a string: Rameshwaram
R
a
m
e
s
h
w
a
r
a
m
>>>|
```

4) Calculate the sum of numbers from 1 to 10.

Ans:

Initialize a variable to store the sum

sum = 0

Use a for loop to iterate from 1 to 10

for i in range (1, 11):

Add each number to the sum

sum += i

Print the result

print ("The sum of numbers from 1 to 10 is:", sum)

Output:

```
>>>|
===== RESTART: C:/Users/sunko/AppData/Local/Programs/Python/Python312/For.py =====
The sum of numbers from 1 to 10 is: 55
>>>|
```