

FOR LOOP STATEMENT

```
>>> for i in range (5):
    print('Hello')
```

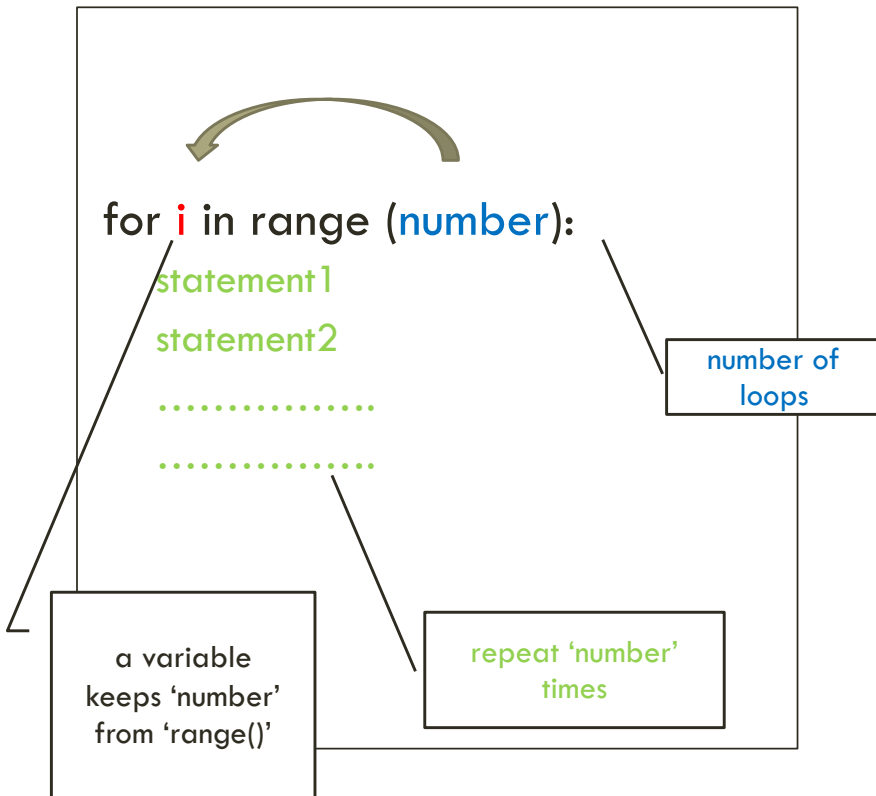
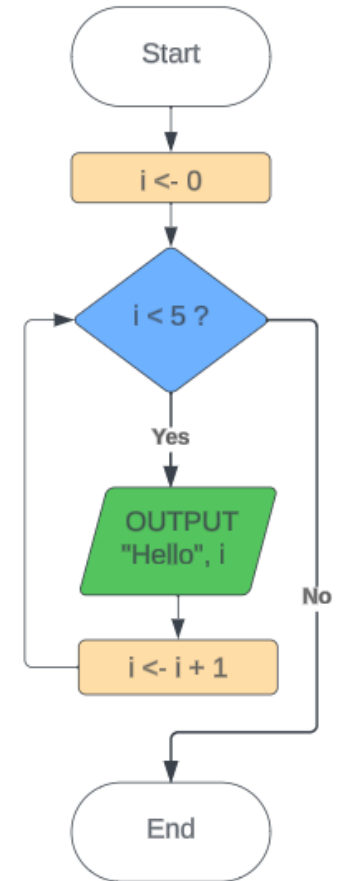
```
Hello
Hello
Hello
Hello
Hello
```

```
>>> for i in range (5):
    print(i)
```

```
0
1
2
3
4
```

```
>>> number = [10,5,7,9,2]
>>> for i in range (5):
    print (number[i])
```

```
10
5
7
9
2
```



QUESTION

- Ask user to input a number
- Output the multiplication table of that number
- The output should be like this

```
Enter a number: 5
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
5 x 11 = 55
5 x 12 = 60
```

FOR LOOP STATEMENT

- Create a list of random numbers

```
1 import random # import library random
2 number = [] # initialise a blank array
3 for i in range(5): # loop 5 times
4     temp = random.randint(1,10) # random a number between 1-10 and store in temp
5     number.append(temp) # put the number from variable temp into array number
6 print(number)
```

FINDING THE HIGHEST NUMBER

```
56 number = [5,1,9,7,8,3]
57 highest = 0 #assign the possible lowest value in highest variable
58 for i in range (len(number)): #repeat six times
59     if number[i] > highest: #check if the extracted data is greater than value in highest
60         highest = number[i] #if yes, update the highest value
61 print('the highest value is',highest)
```

What about lowest value?

FINDING THE TOTAL NUMBER

```
63 number = [5,1,9,7,8,3]
64 total = 0 #intitialise value
65 for i in range (len(number)): #repeat six times
66     total = total + number[i] #totaling statement
67 print('The total value : ', total)
```

What about average?

LINEAR SEARCH

```
1 number = [5, 1, 12, -5, 16]
2
3 target = int(input("Enter a target number: "))
4 for i in range(len(number)):
5     if target == number[i]:
6         print("Found")
7     else:
8         print("Not found")
```

```
1 number = [5, 1, 12, -5, 16]
2 found = False
3
4 target = int(input("Enter a target number: "))
5 for i in range(len(number)):
6     if target == number[i]:
7         found = True
8
9 if found == True:
10     print(target, "is found")
11 else:
12     print(target, "not found")
```