

LOOPS, BREAK AND CONTINUE:

```
In [2]: str = "Python"
        for i in str:
            print(i)
```

P
y
t
h
o
n

```
In [3]: list=[1,2,3,4,5,6,7,8,9,10]
        n=6
        for i in list:
            c=n*i
            print(n," * ",i," = ",c)
```

6 * 1 = 6
6 * 2 = 12
6 * 3 = 18
6 * 4 = 24
6 * 5 = 30
6 * 6 = 36
6 * 7 = 42
6 * 8 = 48
6 * 9 = 54
6 * 10 = 60

```
In [4]: list=[10,30,23,43,65,12]
        sum=0
        for i in list:
            sum=sum+i
        print("The sum is:",sum)
```

The sum is: 183

```
In [5]: for i in range(14):
        print(i,end=' ')
```

0 1 2 3 4 5 6 7 8 9 10 11 12 13

```
In [6]: n=int(input("Enter the number "))
        for i in range(1,11):
            c=n*i
            print(n,"*",i,"=",c)
```

Enter the number 8
8 * 1 = 8
8 * 2 = 16
8 * 3 = 24
8 * 4 = 32
8 * 5 = 40
8 * 6 = 48
8 * 7 = 56
8 * 8 = 64
8 * 9 = 72
8 * 10 = 80

```
In [9]: n=int(input("Enter the number "))
        for i in range(2,n,2):
            print(i)
```

Enter the number 18
2
4
6
8
10
12
14
16

```
In [10]: list=['Maya','Suresh','Nithin','Namitha']
for i in range(len(list)):
    print("Hello",list[i])
```

```
Hello Maya
Hello Suresh
Hello Nithin
Hello Namitha
```

```
In [11]: for i in range(0,7):
          print(i)
        else:
          print("for loop completely exhausted, since there is no break.")
```

```
0
1
2
3
4
5
6
for loop completely exhausted, since there is no break.
```

```
In [12]: for i in range(0,7):
          print(i)
          print("bye")
          continue;
          print("hello")
        else:print("for loop is exhausted");
        print("The loop is broken due to break statement...came out of the loop")
```

```
0
bye
1
bye
2
bye
3
```

ntdata.js

```
bye
4
bye
5
bye
6
bye
for loop is exhausted
The loop is broken due to break statement...came out of the loop
```

```
In [14]: #print all letters except 'a' and 't'
i=0
str1='namitha'
print(str1)
while i < len(str1):
    print('entered while loop before if statement')
    if str1[i]=='a' or str1[i]=='t':
        print('entered if statement')
        i+=1
        print('i incremented')
        continue
    print('after continue')
    print('Current Letter :',str1[i])
    i+=1
    print('going back to starting of while loop')
```

```
namitha
entered while loop before if statement
Current Letter : n
going back to starting of while loop
entered while loop before if statement
entered if statement
i incremented
entered while loop before if statement
Current Letter : m
going back to starting of while loop
entered while loop before if statement
entered if statement
i incremented
entered while loop before if statement
Current Letter : h
going back to starting of while loop
entered while loop before if statement
entered if statement
i incremented
```

```
Current Letter : n
Current Letter : a
Current Letter : m
Current Letter : i
Current Letter : t
```

```
str1='namitha'
i=0
while i < len(str1):
    i+=1
    pass
print('Value of i : ',i)
```

```
Value of i : 7
```

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

```
Enter the number:10
10 X 1 = 10
10 X 2 = 20
10 X 3 = 30
10 X 4 = 40
10 X 5 = 50
10 X 6 = 60
10 X 7 = 70
```

$$10 \times 8 = 80$$
$$10 \times 9 = 90$$
$$10 \times 10 = 100$$
[illegible]

```
In [*]: var=1
while(var!=2):
    i=int(input("Enter the number:"))
    print("Entered value is %d"%(i))
```

```
Enter the number:1
Entered value is 1
Enter the number:3
Entered value is 3
Enter the number:5
Entered value is 5
```

Enter the number:

```
i=1
while(i<=5):
    print(i)
    i=i+1
else:
    print("The while loop exhausted")
```

```
1
2
3
4
5
The while loop exhausted
```

```
i=1
while(i<=5):
    print(i)
    i=i+1
    if(i==3):
        break
else:
    print("The while loop exhausted")
print("bye bye")
```

```
1
2
bye bye
```

```
[4] list=[1,2,3,4]
    i=1;
    count=1;
    for i in list:
        if i==4:
            print("item matched")
            count=count+1;
            break
    print("found at",count,"location");
```

```
item matched
found at 2 location
```

```
[5] str="python"
    for i in str:
        if i=='o':
            break
    print(i)
```

```
p
y
t
h
```

```
[7] n=2
    while 1:
        i=1;
        while i<=10:
            print("%d X %d = %d\n"%(n,i,n*i));
            i=i+1;
        choice=int(input("Do you want to continue printing the table, press 0 for no?"))
        if choice==0:
            break;
        n=n+1
```

```
2 X 1 = 2
```

```
2 X 2 = 4
```

```
2 X 3 = 6
```

```
2 X 4 = 8
```

```
2 X 5 = 10
```

```
2 X 6 = 12
```

```
2 X 7 = 14
```

```
2 X 8 = 16
```

```
[7] 2 X 9 = 18
```

```
2 X 10 = 20
```

```
Do you want to continue printing the table, press 0 for no?0
```

```
[8] i=0
    while(i<10):
        i=i+1
        if(i==5):
            continue
        print(i)
```

```
1
2
3
4
6
7
8
9
10
```

```
[9] str="Namitha"
    for i in str:
        if(i=='N'):
            continue
        print(i)
```

a
m
i
t
h
a

```
[10] list=[1,2,3,4,5]
flag=0
for i in list:
    print("Current element:",i,end=" ");
    if i==3:
        pass
        print("\nWe are inside pass block\n");
        flag=1
    if flag==1:
        print("\nCame out of pass\n");
        flag=0
```

Current element: 1 Current element: 2 Current element: 3
We are inside pass block

Came out of pass

Current element: 4 Current element: 5

```
[11] values={'N','A','M','I','T','H','A'}
    for val in values:
        pass
```



```
for i in [1,2,3,4,5]:
    if(i==4):
        pass
        print("This is pass block",i)
    print(i)
```

1
2
3
This is pass block 4
4
5
