Today Topics

- while loop
- strings and string functions

In [1]:
```python
for i in range(1,11):
    print("Python", end = " ")
```

Python Python Python Python Python Python Python Python Python Python

Syntax
While condition:

    - set of statements\
    - increment/ decrement

In [2]:
```python
n = 1  #2  #11
while n<=10:  # 1<=10
    print(n*n,end = " ")
    n=n+1 #n+=1

#for i in range(1,100)
```

1 4 9 16 25 36 49 64 81 100

In [3]:
```python
i = 1     # 1,2,3,4,5,6
while i<6: # 1,2,3,4,5
    if i == 3: #1,2
        break
    print(i)
    i+=1
```

1
2

In [4]:
```python
n = int(input())
while n<=50:
    print(n, end = " ")
    n+=1
```

10
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 3
6 37 38 39 40 41 42 43 44 45 46 47 48 49 50

```
In [5]:   1  for i in range(10,20,1):
          2      print("python",end =" ")
```

python python python python python python python python python python

```
In [6]:   1  n1 = int(input())     # 10000
          2  n = int(input())      # 11000
          3  amount = n1-1000      # 9000
          4  while True:
          5      if amount >n:
          6          print("take your money")
          7      else:
          8          print("Amount exceeds balance")
          9      break
         10
```

10000
11000
Amount exceeds balance

```
In [7]:   1  ac_bal = 10000     # 10000
          2  withdraw_amount = int(input())    # 11000
          3  max_withdraw = ac_bal-1000     # 9000
          4  while True:
          5      if max_withdraw>withdraw_amount:
          6          print("take your money")
          7      else:
          8          print("amount exceeds")
          9      break
```

11000
amount exceeds

String

" "

```
In [8]:   1  s = " "
          2  type(s)
```

Out[8]: str

```
In [9]:   1  s = "Pyhton Programming 123@"
```

Indexing

- Positve index
- negative index

```
In [10]:  1  s[5]
          2  s[10]
          3  s[8]
          4  s[-3]
```

Out[10]: '2'

Slicing

varname[start index : end index: step count]

```
In [11]:  1  s[19:22]  #  19,20,21
```

Out[11]: '123'

```
In [12]:  1  print(s)
          2  s[15:26:2]  # 15,17,19,21,23,25
```

Pyhton Programming 123@

Out[12]: 'ig13'

```
In [13]:  1  print(s[0:24:3])
          2  print(s[0::3])
          3  print(s[::3])  # for i in range(11,3)  # s[0:24:3]
```

Pt oai 3
Pt oai 3
Pt oai 3

```
In [14]:  1  s[18:5:-2]     # for i in range(10,1,-1)
```

Out[14]: ' nmagr '

```
In [15]:  1  s[-6:-10:-1] # -6,-5,-4,-3,-2
```

Out[15]: 'gnim'

```
In [16]:  1  s[::-2] # -1:: -1
```

Out[16]: '@2 nmagr ohP'

```
In [17]:  1  len(s)
```

Out[17]: 23

```
In [18]:  1  t =  len(s)//2
          2  s[t]
```

Out[18]: 'r'

```
In [19]:  1  s[len(s)//2]
```

Out[19]: 'r'

```
In [20]:  1  len(s)//2
```

Out[20]: 11

```
In [21]:  1  s = "Hello"   #5
          2  t = (len(s)//2)
```

```
In [22]:  1  s[(len(s)//2)]
```

Out[22]: 'l'

```
In [23]:  1  hari =874982876872687587
          2  print(hari+67)
```

874982876872687654

```
In [24]:  1  hari==200
```

Out[24]: False

```
          1
```