TODAY tOPICS

- WHILE LOOP
- strings and string function

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 [4]:

```python
n=1
while n<=10:
    print(n*n,end=" ")
    n=n+1
```

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 [5]:

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

40
40 41 42 43 44 45 46 47 48 49 50

In [6]:

```python
1  for i in range(10,20,1):
2      print("harsha",end =" ")
```

harsha harsha harsha harsha harsha harsha harsha harsha harsha harsha

In [2]:

```python
1  n1 = int(input())      #10000
2  n  = int(input())      #11000
3  amount = n1-1000       #9000
4  while True:
5      if amount >n:    #3000>2000
6          print("take your money")
7      else:
8          print("Amount exceeds balance")
9      break
```

```
1000
3000
Amount exceeds balance
```

In [3]:

```python
1  n1 = int(input())      #10000
2  n  = int(input())      #11000
3  amount = n1-1000       #9000
4  while True:
5      if amount >n:    #3000>2000
6          print("take your money")
7      else:
8          print("Amount exceeds balance")
9      break
```

```
11000
9000
take your money
```

String

""

In [4]:

```python
1  s = " "
2  type(s)
```

Out[4]:

str

Indexing

- positive index
- negative index

In [5]:

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

```
---------------------------------------------------------------------------
IndexError                                Traceback (most recent call last)
<ipython-input-5-1047e977ef24> in <module>
----> 1 s[5]
      2 s[10]
      3 s[8]
      4 s[-3]

IndexError: string index out of range
```

```
1  # Slicing
2
3  varname[start index : end index: step count]
```

In [6]:

```
1  s = "python programming 123@"
```

In [7]:

```
1  s[19:22]
```

Out[7]:

```
'123'
```

In [8]:

```
1  print(s)
2  s[15:26:2]
```

```
python programming 123@
```

Out[8]:

```
'ig13'
```

In [10]:

```
1  print(s[0:24:3])
2  print(s[0::3])
3  print(s[::3])
```

```
ph oai 3
ph oai 3
ph oai 3
```

In [11]:

```
1  s[18:5:-2]
```

Out[11]:

' nmagr '

In [12]:

```
1  s[-6 : -10]
```

Out[12]:

''

In [13]:

```
1  s[-6 : -10 : -1]
```

Out[13]:

'gnim'

In [14]:

```
1  s[::-2]
```

Out[14]:

'@2 nmagr otp'

In [15]:

```
1  len(s)
```

Out[15]:

23

In [ ]:

```
1
```