```
In [1]:
```

```
1 1 = [1,2,3,4,5,6,4,5,6]
```

## In [12]:

```
1  for i in 1: # 1,2,3,4,5,6,4,5,6
2    if i == 4:
3         print("number 4 is present")
```

number 4 is present
number 4 is present

## In [11]:

```
for i in 1: # 1,2,3,4,5,6,4,5,6
if i == 4:
    print("number 4 is present")
    break
```

number 4 is present

## In [10]:

```
1  for i in 1: # 1,2,3,4,5,6,4,5,6
2    if i == 4:
3        continue
4    print(i)
```

## In [9]:

```
for i in 1: # 1,2,3,4,5,6,4,5,6
if i == 4:
    print("number 4 is present")
    pass
print(i)
```

```
1
2
3
number 4 is present
4
5
6
number 4 is present
4
5
6
```

#### In [13]:

```
for i in 1: # 1,2,3,4,5,6,4,5,6
 2
         if i == 4:
 3
             print("number 4 is present")
 4
 5
         print(i+10)
11
12
13
number 4 is present
14
15
16
number 4 is present
14
```

# **Today Topics**

- · while loop
- · strings and string functions

## In [15]:

15 16

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

python python python python python python python python python

Syntax while condition: set of statements increment/decrement

## **Syntax**

while condition:

- set of statements
- increment/decrement

## In [1]:

1 2 3 4 5 6 7 8 9 10

```
In [2]:
```

1 4 9 16 25 36 49 64 81 100

```
In [4]:
```

```
1  i = 1  # 1,2,3,4,5,6
2  while i<6: # 1,2,3,4,5
3    if i == 3: # 1,2
4        break
5    print(i)
6    i+=1</pre>
```

1

## In [7]:

```
1  n = int(input())
2  while n<=50:
3     print(n,end = " ")
4     n+=1</pre>
```

100

#### In [8]:

```
1  n = int(input())
2  while n<=50:
3     print(n,end = " ")
4     n+=1</pre>
```

48

48 49 50

#### In [9]:

```
for i in range(0,11,2):
    print("python",end =" ")
```

python python python python python

## In [10]:

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

python python python python python python python python python

#### In [12]:

```
1    n1 = int(input()) #4000
2    n = int(input()) #2000
3    amount = n1-1000 #3000
4    while amount>2000:
5        if amount >n: # 4000>2000
6             print("Take ur money")
7        else: #4000 4000
8             print("Amount exceeds balance")
9        break
```

4000 2000 Take ur money

## In [ ]:

```
n1 = int(input()) #4000
2
  n = int(input()) #2000
  amount = n1-1000 #3000
3
4
  while True:
5
       if amount >n: # 4000>2000
           print("Take ur money")
6
7
       else: #4000 4000
           print("Amount exceeds balance")
8
9
       #break
```

```
4000
2000
Take ur money
```

#### In [2]:

```
n1 = int(input()) #4000
  n = int(input()) #2000
2
  amount = n1-1000 #3000
4
  while True:
5
       if amount >n: # 3000>2000
           print("Take ur money")
6
       else: #4000 4000
7
           print("Amount exceeds balance")
8
9
       break
```

3000 2000

Amount exceeds balance

## In [3]:

```
1 n1 = int(input()) #4000
  n = int(input()) #2000
3
  amount = n1-1000 #3000
4
  while True:
       if amount >n: # 3000>2000
5
6
           print("Take ur money")
7
       else: #4000 4000
8
           print("Amount exceeds balance")
9
       break
```

4000 2000

Take ur money

## In [6]:

```
n1 = int(input()) #10000
   n = int(input()) #11000
 3
   \#amount = n1-1000 \#9000
 4
   while True:
 5
        if n1 >n:
            print("Take ur money")
 6
 7
        elif n1 ==n:
            print("you have only",n1,"as ur balance")
8
9
10
            print("Amount exceeds balance")
11
        break
```

10000

11000

Amount exceeds balance

```
In [7]:
```

```
1   n1 = int(input()) #10000
2   n = int(input()) #11000
3   amount = n1-1000 #9000
4   while amount>n:
5      print("take ur amount")
6   break
```

10000 11000

## In [9]:

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

10000 11000

Amount exceeds balance

## In [11]:

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

8000

take ur money

## String

" "

#### In [12]:

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

```
Out[12]:
```

str

```
In [19]:

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

# Indexing

- · positive index
- · negitive index

```
In [20]:
```

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

Out[20]:

'2'

## **Slicing**

varname[start index : end index: step cont]

```
In [21]:
    s[19]
Out[21]:
    '1'
In [22]:
    1    s[19:22] # 19,20,21
Out[22]:
    '123'
In [30]:
    1    print(s)
    2    s[15:26:21] # 15,17,19,21,23,25
```

python Programming 123@

```
Out[30]:
```

'i'

```
In [25]:
 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]
ph oai 3
ph oai 3
ph oai 3
In [26]:
 1 s[18:5:-2] #for i in range(10,1,-1)
Out[26]:
'nmagr'
In [28]:
 1 | s[-6:-10:-1] # -6,-5,-4,-3,-2
Out[28]:
'gnim'
In [31]:
 1 | s[::-1] # -1:: -1
Out[31]:
'@321 gnimmargorP nohtyp'
In [32]:
 1 | s[::-2] # -1:: -1
Out[32]:
'@2 nmagr otp'
In [33]:
 1 len(s)
Out[33]:
23
In [34]:
 1 t = len(s)//2
 2 s[t]
Out[34]:
'r'
```

```
In [35]:
 1 s[len(s)//2]
Out[35]:
'r'
In [ ]:
 1
 2
 3
In [36]:
 1 s = "Hello" #s
 2 t = (len(s)//2)
In [37]:
 1 s[(len(s)//2)]
Out[37]:
'1'
In [38]:
 1 hari = 874982876872687587
 2 print(hari)
874982876872687587
In [39]:
 1 hari = 874982876872687587
 2 print(hari+67)
874982876872687654
In [40]:
 1 hari == 200
Out[40]:
False
In [43]:
 1 <img src = "logo.png">
 File "<ipython-input-43-37feaeb66856>", line 1
   <img src = "logo.png">
SyntaxError: invalid syntax
```

```
In [52]:
```

```
File "<ipython-input-52-df0e49ea27d9>", line 1
    <img src =
```

SyntaxError: invalid syntax

## In [46]:

prime

## In [ ]:

1

## In [ ]:

1