

If Else Statement: Condition Checking

A=5

If (a==5):

Print("yes its equal")

If (a==6):

Print("yes its equal")

Else conditions: to check multiple conditions

If (a==6):

Print("yes its equal")

Else:

Print("Not Equal")

If username == 'vipul' and password == 'shahi':

Print ('Welcome' + username)

Else:

Print("please check again")

Elif Condition: Different Statement on Multiple conditions

name='vipul'

if name == 'rahul':

print("Your exam date is 5th")

elif name == 'vipul':

print("Your exam date is 6th")

elif name == 'pritam':

print("Your exam date is 7th")

else:

print("Absent")

Nested If:

email="bipulshahi25@gmail.com"

password=123

if email == "bipulshahi25@gmail.com":

 if password==123:

 print("Welcome"+email)

 else:

 print("password incorrect")

else:

 print("check email address")

Arithmetic Operators:

Addition: +

Subtraction: -

Multiplication: *

Division: /

Modulus: % //Remainder

Exponent: ** //Calculate Power

A=4

B=3

A+B

A-B

A*B

A/B

A%B

Comparison Operators

==: **Equal to**

!= **Not Equal to**

>: **Greater then**
<: **Less then**
>=: **Greater then or equal to**
<=: **Less then or equal to**

Logical Operators

And

Or

Gender='male'

Age=19

If gender == "male" and age>=18

 Print("You can enter party")

Else:

 Print("You can't enter party")

dresscolor='blue'

If dresscolor == "green" or dresscolor == "blue"

 Print("You can enter party")

Else:

 Print("You can't enter party")

Looping: For loop

for i in range(1,11): #print 1 to 10

 print(i)

```
for i in range(1,21,2):          #print 1 to 20 with gap of 2
    print(i)
```

```
names=["Rahul","prateek","Vipul"]
for i in names:
    print(i)
```

```
name="vipul"
for i in name:
    print (i)
```

Looping: While Loop **#Runs till specified condition doesn't turns false**

```
steps=1
while(steps<21):
    print(steps)
    steps=steps+1
```

```
steps=1
while(steps<21):
    print(steps)
    steps=steps+2
```

Break Statement:

```
i=1
```

```
while i<10:
```

```
    print(i)
```

```
    i=i+1
```

```
    if i==5:
```

```
        break
```

```
names=["vipul","bhanu","devesh","pradeep","amit"]
```

```
for i in names:
```

```
    if i == "devesh":
```

```
        continue
```

```
    print(i)
```

Functions:

```
def printMsg():
```

```
#without argument
```

```
    print("Hello World")
```

```
def printName(name):
```

```
    print("My name is" + name)
```

```
def nameHobby(n,h)
```

```
    print("My name is "+name+" and my hobby is "+hobby)
```

```
def add(x1,x2):
```

```
    print(x1+x2)
```

Function with Return Values:

```
def add2(x1,x2):  
    return x1+x2  
add2(3,5)*4
```

Local & Global Variable

```
Def test():  
    Num1=10  
    Num2=20  
    Print(num1+num2) #Local
```

```
Num1=10  
Num2=20  
def test1():  
    Print(num1+num2) #Global
```

Inbuilt Functions:

```
Val1=19.30  
int(val1)  
float(15)
```

```
msg="I am Vipul"  
len(msg)
```

```
marks=[10,26,87]  
len(marks)  
max(marks)  
min(marks)
```

```
help(max)
```

```
help(min)
```

```
pow(2,2)          #power
```

```
import math       #math function
```

```
math.sqrt(25)
```

Create and Read file in python

Step 1: - Create and Save a file in .txt format

Step 2:- Read file in python using Program:-

```
r=open("c:\myfile.txt","r")  
r.read()
```

To read again from start:-

```
r.seek(0)  
r.read()
```

To remove "\n" from the text:-

```
r.seek(0)  
print(r.read())
```

To Edit or Write:

```
r=open("c:\myfile.txt","w")  
r.write("I love programming \n I like Python")  
r.close()
```

Copy, Rename, Delete:

Step 1 : Create two .txt file

Step 2: Open old file in read mode:

```
Oldfile = open("c:\oldfile.txt","r")
```

Step 3: Open new file in Write mode:

```
Newfile = open("c:\newfile.txt","w")
```

Step 4: Read and Write:

```
newfile.write(oldfile.read())
```

Step 5: newfile.close()

Rename File

```
import os
```

```
os.rename("c:\newfile.txt", "c:\newfile1.txt")
```

```
os.remove("c:\newfile1.txt") #remove a file
```


