```
If statement
        If else statement
        Nested if statement
        If-elif-else statement
If statement:-
a=10
b=12
if ( a == b ):
    print (" a is equal to b")
If-else-statement:-
a=10
b=12
if ( a == b ):
        print (" a is equal to b")
else:
        print (" a is not equal to b")
Nested if :-
orange_quality = "fresh"
orange_price = 4.0
if (orange_quality == "fresh"):
        if (orange_price < 5):</pre>
        print(" buy 24 orange")
        else:
                print(" buy 12 orange")
```

Conditional statements:-

Types:-

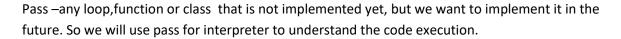
```
else:
        print(" don't buy oranges")
if-elif-else statements:-
t = input("What is the time?")
x=int(t)
if (x < 10):
print ("Good morning")
elif (x<12):
print ("Soon time for lunch")
elif (x<18):
 print ("Good day")
elif (x<22):
print ("Good evening")
else:
 print ("Good night")
Loops:-
Types:-
        while loop
        While – else condition
        for loop
        for – else condition
        nested loops
```

```
whileloop:-
count = 10
while (count < 20):
 print ('count value is:',count)
 count = count + 1
print('hi',count)
While - else condition :-
v = 0
while v < 10:
 print (v, " is less than 10")
 v = v + 1
else:
 print (v, " is not less than 10")
for loop:-
range(start, stop, step)-
start - the starting number (defaults to 0)
stop – the end number
step - the difference between each number (defaults to 1)
Program1-
x = range(3, 9)
for n in x:
 print(n)
Program2-
x = range(3, 10, 2)
for n in x:
 print(n)
```

```
Program3-
a = ['Mary', 'had', 'a', 'little', 'lamb']
for i in range(len(a)):
    print(i, a[i])
Program4-
for c in 'Piyush':
   print( 'Current charactor :', c)
bikes = ['honda','bajaj','tvs']
for bike_name in bikes:
 print ('current bike :', bike_name)
Program5-
for c in 'Piyush':
   print( 'Current charactor :', c)
bikes = ['honda','bajaj','tvs']
for bike_name in bikes:
 print ('current bike :', bike_name)
for - else condition and nested loops:-
for num in range(10,20):
 for i in range(2,num):
   if num%i == 0:
            print (num, 'is not a prime number')
            break
 else:
   print (num, 'is a prime number')
```

```
Break:-
for char in 'Piyush':
 if char == 's':
   break
 print ('Current charactor :', char)
n = 20
while n > 0:
 print ('Current variable value :', n)
 n = n -1
 if n == 15:
   break
print ("end")
Continue:-
for char in 'Piyush':
 if char == 's':
   continue
 print ('Current charactor :', char)
n = 20
while n > 0:
 n = n -1
 if n == 15:
   continue
 print ('Current variable value :', n)
```

pass:-



seq = ['a', 'b', 'c']

for val in seq:

pass

def xyz(arg):

pass

class abc:

pass