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Assignment 2

1] While Loop

In [3]:
```python
i= 10
while(i > 2):
    i -=1
    print(i)
```
executed in 17ms, finished 10:00:55 2021-10-20

```
9
8
7
6
5
4
3
2
```

In [5]:
```python
# Program to add Whole numbers
```
executed in 12ms, finished 10:01:11 2021-10-20

In [6]:
```python
number = int(input("Enter number: "))
item = 0
i = 0
while i <= number:
    item = item + i
    i = i+1
    print(item)
```
executed in 2.29s, finished 10:01:14 2021-10-20

```
Enter number: 10
0
1
3
6
10
15
21
28
36
45
55
```

2] For loop

In [12]:
```python
for i in range(1,21,5):
    print(i)
```
executed in 6ms, finished 22:29:16 2021-10-19

```
1
6
11
16
```

In [15]:
```python
user=input('enter the letter :')
for i in user:
    print(i)
```
executed in 50.0s, finished 22:35:25 2021-10-19

```
enter the letter :patience is key to success
p
a
t
i
e
n
c
e

i
s

k
e
y

t
o

s
u
c
c
e
s
s
```

3] If Else statement

In [9]:
```python
price_of_the_shirt= int(input("Rate of the shirt : "))
if (price_of_the_shirt) > 500:
    print("The shirt is costly")
else:
    print("The shirt is not costly")
```
executed in 1.91s, finished 10:12:59 2021-10-20

```
Rate of the shirt : 600
The shirt is costly
```

```
In [10]: user_input = input("The string is : ")
         if len(user_input) > 10:
             print("The string is long")
         else:
             print("The string is short")
```
executed in 20.6s, finished 10:41:52 2021-10-20

```
The string is : life is full of surprises
The string is long
```

4] If Elif Else statement

```
In [13]: temperature =float(input("The Temperature is : "))
         if temperature < 98.6:
             print("Normal Body Temperature")
         elif 98.6<(temperature) < 100:
             print("MOderate FEver Condition")
         else:
             print("High Fever Conditon")
```
executed in 1.90s, finished 10:53:11 2021-10-20

```
The Temperature is : 101
High Fever Conditon
```

```
In [14]: JEEE_Results = int(input("The Marks obtained is :"))
         if 85 <(JEEE_Results) <100:
             print("The student is eligible for getting medical seat")
         elif (JEEE_Results) < 40:
             print("The student is not  eligible for getting medical seat")
         else:
             print("THe student is in the waiting list")
```
executed in 3.26s, finished 11:00:21 2021-10-20

```
The Marks obtained is :50
THe student is in the waiting list
```

5] User Defined Functions without for loop , if loop

```
In [15]: def squareroot(number):
             return number * number        # using return statement
```
executed in 13ms, finished 11:19:20 2021-10-20

```
In [16]: squareroot(10)
```
executed in 23ms, finished 11:19:28 2021-10-20

Out[16]: 100

```
In [22]: def cuberoot (number):
             print("The cuberoot of number is ",number* number* number)    # using print st
```
executed in 5ms, finished 11:23:20 2021-10-20

```
In [23]:  cuberoot(3)
```

executed in 12ms, finished 11:23:22 2021-10-20

```
The cuberoot of number is   27
```

6] User Defined Functions with for loop

```
In [35]:  def myfunction(*statement):
              for i in statement:
                  print(i)
```

executed in 9ms, finished 11:47:32 2021-10-20

```
In [37]:  myfunction("John sir is the most talented teacher")
```

executed in 19ms, finished 11:48:52 2021-10-20

```
John sir is the most talented teacher
```

```
In [33]:  def length(string):
              count=0
              for i in string:
                  count += 1
              return (count)
```

executed in 11ms, finished 11:36:04 2021-10-20

```
In [34]:  length("Free Left")
```

executed in 8ms, finished 11:36:30 2021-10-20

Out[34]: 9

7] User Defined Functions with for loop,if loop

```
In [59]:   def evennumber(number):
               for i in range(1):
                   if number% 2==0:
                       print("It is even number")
                   else:
                       print("It is odd number")
```

executed in 12ms, finished 14:32:55 2021-10-20

```
In [58]:  evennumber(90)
```

executed in 13ms, finished 14:32:51 2021-10-20

```
It is even number
It is even number
```

```
In [ ]:
```

8] Break

In [2]:
```python
for n in range(0,10,5):
    if n !=5:
        print(n)
    else:
        break
```
executed in 15ms, finished 12:28:31 2021-10-20

```
0
```

In [8]:
```python
i = 0
while i<10:
    print(i)
    if i ==5:
        break
    i= i+1
```
executed in 11ms, finished 12:34:20 2021-10-20

```
0
1
2
3
4
5
```

9] Continue

In [10]:
```python
statement=input("The statement is : ")
for i in statement:
    if i == "e":
        continue
    print(i)
```
executed in 3.79s, finished 12:39:08 2021-10-20

```
The statement is : sangeeth
s
a
n
g
t
h
```

In [11]:
```python
for i in range(30):
    if i%2:
        continue
    print(i)
```
executed in 13ms, finished 12:41:11 2021-10-20

```
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
```

10] For loop with in operator

In [19]:
```python
for number in range(1,100,10):
    print("The random numbers are: ",number)
```
executed in 9ms, finished 12:54:20 2021-10-20

```
The random numbers are:  1
The random numbers are:  11
The random numbers are:  21
The random numbers are:  31
The random numbers are:  41
The random numbers are:  51
The random numbers are:  61
The random numbers are:  71
The random numbers are:  81
The random numbers are:  91
```

In [15]:
```python
a = "mary had a little lamp"
for i in range(len(a)):
    print(i,a[i])
```

executed in 6ms, finished 12:51:29 2021-10-20

```
0 m
1 a
2 r
3 y
4
5 h
6 a
7 d
8
9 a
10
11 l
12 i
13 t
14 t
15 l
16 e
17
18 l
19 a
20 m
21 p
```

11] For loop with if statement

In [20]:
```python
for i in range(10):
    if i%2==0:
        print("It is an even number")
    else:
        print("It is a odd number")
```

executed in 18ms, finished 12:57:08 2021-10-20

```
It is an even number
It is a odd number
It is an even number
It is a odd number
It is an even number
It is a odd number
It is an even number
It is a odd number
It is an even number
It is a odd number
```

In [24]:
```python
string = input("The string is : ")
for i in string:
    if len > 15:
        print("string is long")
    else:
        print("string is short")
```
executed in 3.20s, finished 13:06:13 2021-10-20

The string is : dhoni

TypeError: '>' not supported between instances of 'builtin_function_or_method' and 'int'

12] For loop with not in operator

In [33]:
```python
a =10,12,24,35
for i in range(5):
    i=i+10
    if i not in a:
        print(a)
```
executed in 11ms, finished 14:06:40 2021-10-20

```
(10, 12, 24, 35)
(10, 12, 24, 35)
(10, 12, 24, 35)
```

In [38]:
```python
string = "Python is the upcoming programming language"
for i in string:
    if ("was") not in string:
        print(i)
```

executed in 17ms, finished 14:09:15 2021-10-20

```
P
y
t
h
o
n

i
s

t
h
e

u
p
c
o
m
i
n
g

p
r
o
g
r
a
m
m
i
n
g

l
a
n
g
u
a
g
e
```

13] if with in operator

In [44]:
```python
i ="Dhoni","Shewag","virat","raina"
if "Dhoni" in i:
    print("the cricketer name is correct")
else:
    print("the cricketer name is wrong")
```
executed in 13ms, finished 14:18:58 2021-10-20

```
the cricketer name is correct
```

In [45]:
```python
alpha= 'a','b','c','d','e'
alphanum= 1,23,432,'a'
for i in alpha:
    if i in alphanum:
        print(i)
```
executed in 16ms, finished 14:23:00 2021-10-20

```
a
```

14] if with not in operator

In [47]:
```python
directions = 'north','east','south','west'
if "southwest" not in directions:
    print("the direction is correct")
else:
    print("the direction name is wrong")
```
executed in 16ms, finished 14:25:47 2021-10-20

```
the direction is correct
```

In [56]:
```python
alpha= 'a','b','c','d','e'
alphanum= 1,23,432,'567'
if alphanum not in alpha:
        print("True")
```
executed in 16ms, finished 14:29:11 2021-10-20

```
True
```

===========================END===========================

In [ ]: