Assignments

Q1.Using while loop Display No. 1-20.

```
->a = 1
  while a<=20:
     print (a)
     a +=1
```

Q2.Using while loop Display No. 10-1

```
->a=10
  While a>=1:
     print (a)
     a-=1
```

Q3.Using while loop Display ODD NO 1 to 50.

```
->a = 1
  while 92=50:
     print (a)
     a+=2
```

Q4.Using while loop Display Even NO 50 to 100.

```
->a = 50
  While a<=100:
     print (a)
     a+= 2
```

Q5.Enter any num Display its table.

```
->a=1
  user = int (input("Enter any number:"))
  while a<=10:
     val = a * user
     print (uses "x",a,"=",mul)
     a+= 1
```

Q6.Enter any 5 No. in whileloop

```
->a = 1
  while a<=5:
     user = int (input ("Enter any number:"))
     a+= 1
```

Q7.Find out its sum & Avg.

```
->a = 1
```

```
  Sum = 0
  while a<= 5:
     user = int (input ("Enter any Number:")
     sum = sum + user
     a+=1
  print (sum)
```

Q8.Enter any number find its 5 factors.

```
->a = 1
  user = int (înput ("Enter any number:"))
  Sum = 0
  while a<=user:
    if user % a == 0:
     sum = sum + a
     print(a)
  print (sum)
```

Q9.Enter any number check whether it is perfect number of not.

```
->a = 1
  user = int(input("Enter any number :))
  Sum = 0
  while a<user:
    if user % a == 0
     sum = sum + a
     print +(a)
     a+= 1
  print (sum)
  if sum == user:
     print("It is perfect Number")
  else:
       print("It is not perfect Number")
```

Q10.Enter any numbes check whether the numbers are Amicable number or not.

```
->a = 1
  b=1
  abc = int(input ("Enter num 1"))
  xyz=int (imput ("Enter num 2 :"))
s1=0
s2=0
While a<abc:
     if abc %, a = = ☺ !
          s = s1 + a
```

```
    a+=1
while b<xyz:
    s2=s2+b
    b+=1
if s1==xyz and s==abc:
    print("It is amicable number")
else:
   print("It is not amicable number")
```

Q11.Enter any number to find how many digit it contains.

```
-> a = 0
  user= int (input ("Enter any number:"))
  while user>0:
     user //=10
     a += 1
  print(a)
```

Q12.Enter any number to find it is twin prime number or not..

```
-> user=int(input ("Enter number :"))
   a=2
   while a<user:
     b=user-2
     C = user +2
     if b%2==1 or c%2==1:
          a = user +2
if a == user +2:
     print ("It is a twinprime number")
else:
    print("It is not a twinprime number")
```

Q13.Enter any number to find its reverse

```
-> user = int(input ("Enter any number:")
   a = 0
   while user>0:
     b = user % 10
     a = a * 10 + b
     user //= 10
   print(a)
```

Q14.Enter any number to find it is palin number or not.

```
->user = int(input ("Enter any number :"))
  a = 0
  while user>0:
     a = a * 10 + user % 10
     user //= 10
```

```
if a == user:
    print ("It is palin number")
else:
    print ("It is not palin number")
```