```
In [1]: a='sathi'
Out[1]: 'sathi'
In [5]: a='ssaathiii'
        str = "sample string"
        def getMaxOccuringChar(str):
        print ("Max occurring character is " + getMaxOccuringChar(str))
          File "<ipython-input-5-e27b4a74edb5>", line 4
            print ("Max occurring character is " + getMaxOccuringChar(str))
        IndentationError: expected an indented block
In [7]: #13
        ASCII_SIZE = 256
        def getMax0ccuringChar(str):
            count = [0] * ASCII SIZE
            max = -1
            c = ''
            for i in str:
                count[ord(i)]+=1;
            for i in str:
                if max < count[ord(i)]:</pre>
                    max = count[ord(i)]
                    c = i
            return c
        str = "sample string"
        print ("Max occurring character is " + getMaxOccuringChar(str))
        Max occurring character is s
```

```
In [10]:
         NO_OF_CHARS = 256
         def toMutable(string):
             List = []
              for i in string:
                  List.append(i)
             return List
         def toString(List):
             return ''.join(List)
         def removeDups(string):
             bin hash = [0] * NO OF CHARS
             ip ind = 0
             res_ind = 0
             temp = ''
             mutableString = toMutable(string)
             while ip_ind != len(mutableString):
                  temp = mutableString[ip_ind]
                  if bin_hash[ord(temp)] == 0:
                      bin_hash[ord(temp)] = 1
                      mutableString[res_ind] = mutableString[ip_ind]
                      res_ind+=1
                 ip\_ind+=1
             return toString(mutableString[0:res_ind])
         string = "geeksforgeeks"
         print (removeDups(string))
         geksfor
In [11]: #15
         my_tuple = (1, 2, 3, 4)
         print(my_tuple)
         (1, 2, 3, 4)
In [12]: list(mv tuple)
Out[12]: [1, 2, 3, 4]
In [16]: #16
         listx = list(my_tuple)
         #use different ways to remove an item of the list
         listx.remove(2)
         print(listx)
         [1, 3, 4]
In [17]: #17
         tuple(listx)
Out[17]: (1, 3, 4)
```

```
In [1]: #24
    num = 7

# uncomment to take input from the user
#num = int(input("Enter a number: "))

factorial = 1

# check if the number is negative, positive or zero
if num < 0:
    print("Sorry, factorial does not exist for negative numbers")
elif num == 0:
    print("The factorial of 0 is 1")
else:
    for i in range(1,num + 1):
        factorial = factorial*i
        print("The factorial of".num."is".factorial)
The factorial of 7 is 5040</pre>
```

```
In [2]: #25
        # Program to display the Fibonacci sequence up to n-th term where n is prov.
         # change this value for a different result
        nterms = 10
         # uncomment to take input from the user
        #nterms = int(input("How many terms? "))
         # first two terms
        n1 = 0
        n2 = 1
        count = 0
         # check if the number of terms is valid
        if nterms <= 0:</pre>
            print("Please enter a positive integer")
        elif nterms == 1:
           print("Fibonacci sequence upto",nterms,":")
           print(n1)
        else:
            print("Fibonacci sequence upto",nterms,":")
           while count < nterms:</pre>
                print(n1,end=' ,
               nth = n1 + n2
                # update values
                n1 = n2
               n2 = nth
               count += 1
```

Fibonacci sequence upto 10 : 0 , 1 , 1 , 2 , 3 , 5 , 8 , 13 , 21 , 34 ,

```
In [28]: #26
         inp=input("Enter a number:")
                                                         # input from user
         sum=0
         if inp>0:
             for i in str(inp):
                 fact=1
         if int(i)!=0:
             for j in range(1,int(i)+1):
                 fact=fact*j
                                              # factorial calculation
             sum=sum+fact
         if sum==inp:
                                                  # checking if strong number
                 print("Given number is strong number")
         else:
                 print("Given number is not strong number")
         Enter a number:145->
         TypeError
                                                    Traceback (most recent call last
         <ipython-input-28-df35582e8ede> in <module>()
               1 inp=input("Enter a number:")
                                                                  # input from user
               2 sum=0
         ----> 3 if inp>0:
               4
                     for i in str(inp):
               5
                             fact=1
         TypeError: '>' not supported between instances of 'str' and 'int'
In [34]: inp=input("Enter a number:")
                                                          # input from user
         sum=0
         if inp>0:
             for i in str(inp):
                 fact=1
                 if int(i)!=0:
             for j in range(1,int(i)+1):
                                                  # factorial calculation
                     fact=fact*j
             sum=sum+fact
             if sum==inp:
                                                      # checking if strong number
                 print ("Given number is strong number")
             else:
                 print ("Given number is not strong number" )
         else:
             print ("Given number is not strong number")
           File "<ipython-input-34-c3306cee22c8>", line 7
             for j in range(1,int(i)+1):
```

IndentationError: expected an indented block

```
In [35]: a = 0
          while a < 10:
              a = a + 1
              if a > 5:
                  print (a,">",5)
              elif a <= 7:
                  print (a,"<=",7)
                  print ("Neither test was true")
          1 <= 7
          2 <= 7
          3 <= 7
          4 <= 7
          5 <= 7
          6 > 5
          7 > 5
          8 > 5
          9 > 5
          10 > 5
In [41]: #22
          in_put=int(input())
          if in_put <= 10:
              print("less then 10")
          else:
              print("not ok")
          less then 10
In [43]: #29
          def pypart(n):
              # outer loop to handle number of rows
              # n in this case
              for i in range(0, n):
                   # inner loop to handle number of columns
                  # values changing acc. to outer loop
for j in range(0, i+1):
                       # printing stars
print("* ",end="")
                   # ending line after each row
                   print("\r")
          # Driver Code
          n = 5
          pvpart(n)
          * *
          * * *
          * * * *
```

```
In [44]: #30
          def pypart2(n):
               # number of spaces
               k = 2*n - 2
               # outer loop to handle number of rows
               for i in range(0, n):
                   # inner loop to handle number spaces
                   # values changing acc. to requirement
                   for j in range(0, k):
    print(end=" ")
                   # decrementing k after each loop
                   k = k - 2
                   # inner loop to handle number of columns
                   # values changing acc. to outer loop
for j in range(0, i+1):
                        # printing stars
                        print("* ", end="")
                   # ending line after each row print("\r")
          # Driver Code
          n = 5
          pvpart2(n)
               * * *
```

```
In [45]: #31
          def triangle(n):
               # number of spaces
               k = 2*n - 2
               # outer loop to handle number of rows
               for i in range(0, n):
                   # inner loop to handle number spaces
                   # values changing acc. to requirement
                   for j in range(0, k):
    print(end=" ")
                   # decrementing k after each loop
                   k = k - 1
                   # inner loop to handle number of columns
                   # values changing acc. to outer loop
for j in range(0, i+1):
                        # printing stars
                        print("* ", end="")
                   # ending line after each row print("\r")
          # Driver Code
          n = 5
          triangle(n)
 In [ ]:
```