```
In [4]:
           1 #Python Program to find the factorial of a number using loop.
             n=int(input("Enter number:"))
           3
             fact=1
             while(n>0):
           4
           5
                 fact=fact*n
           6
                 n=n-1
           7
             print("Factorial of the number is:")
           8 nrint(fact)
         Enter number:4
         Factorial of the number is:
         24
In [7]:
             #Python Program to reverse a number using loop
             r=0
           3
             n=int(input("Enter a number: "))
           4
             while(n>0):
           5
                 dig=n%10
                 r=r*10+dig
           6
                 n=n//10
           7
             print("The reversed no is:")
           9 nrint(r)
         Enter a number: 5
         The reversed no is:
In [11]:
          1
             #Write a Python program to construct the following pattern, using a nested
           2
           3
           4
             * * *
           5
             * * *
           6
           7
           8
           9
          10
          11
             n=5;
             for i in range(n):
          12
          13
                  for j in range(i):
                     print ('*',end="")
          14
          15
                 print(")
          16 for i in range(n,0,-1):
          17
                 for j in range(i):
                     print('*i,end="")
          18
          19
                 nrint(")
           File "<ipython-input-11-8cca876e19d5>", line 2
         SyntaxError: invalid syntax
In [12]:
           1 #Python Program to replace all occurrences of 'a' with '$' in a string.
             string=input("Enter string:")
          3 string=string.replace('a','$')
           4 string=string.replace('A','$')
           5 print("Modified string:")
           6 nrint(string)
         Enter string:4
         Modified string:
In [13]:
          1 #Python Program to remove the nth index character from a non-empty string.
          2 def remove(string, n):
           3
                 first = string[:n]
```

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last = string[n+1:]
           5
                  return first + last
           6 string=input("Enter the sring:")
             n=int(input("Enter the index of the character to remove:"))
           8 print("Modified string:")
           9 nrint(remove(string n))
         Enter the sring:5
         Enter the index of the character to remove:2
         Modified string:
In [16]:
             #Python Program to detect if two strings are anagrams.
             s1=input("Enter first string:")
             s2=input("Enter second string:")
            if(sorted(s1)==sorted(s2)):
           5
                 print("The strings are anagrams.")
           6
             else:
           7
                 nrint("The strings aren&#30:t anagrams ")
         Enter first string:7
         Enter second string:5
         The strings aren't anagrams.
In [18]:
             #Python Program to form a string where the first character and the last cha
           3
             def change(string):
                  return string[-1:] + string[1:-1] + string[:1]
           4
           5
             string=input("Enter string:")
             print("Modified string:")
             nrint(change(string))
         Enter string:4
         Modified string:
In [20]:
             #Python Program to count number of vowels from a non-empty string.
             string=input("Enter string:")
             vowels=0
           3
             for i in string:
                 if(i=='a'or i=='e' or i=='i'or i=='o' or i=='u' or i=='A' or i=='E' or
           5
                     vowels=vowels+1
           6
             print("Number of vowels are:")
           8
             nrint(vowels)
         Enter string:7
         Number of vowels are:
          1 #Program for Divide by zero error detection
 In [*]:
             flag = True
           2
           3
              def div(a, b):
           4
                  try:
           5
                      print("Finally the division of %d/%d is %f" % (a, b,a/b))
                      global flag
           6
           7
                      flag=False
           8
                  except ZeroDivisionError:
           9
                      print("Zero Division Error detected")
          10
          11
                      print("Division is successful")
                  finally:
          12
                     if flag is True:
          13
          14
                          print("Try again")
          15
                      else:
          16
                          print("Thank you")
          17
             #global flag
             while flag is True:
          18
                 div(int(input("Enter numerator")) int(input("Enter denominator")))
```

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```
Enter numerator6
        Enter denominator0
        Enter numerator
In [*]:
           #Program for ValueError error detection
           while True:
         3
               try:
         4
                   x = int(input(\" Please enter a number: "))
         5
                   print(" That was valid number. Thank you")
         6
                   break
         7
               except ValueError:
                   nrint(&quot:Oons! That was no valid number Try again &quot:)
In []: L1
```

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