

In [3]:

```
1 #Python Program to find the factorial of a number using loop.
2 n=int(input('Enter number:'))
3 fact=1
4 while(n>0):
5     fact=fact*n
6     n=n-1
7 print('Factorial of the number is:')
8 print(fact)
```

Enter number:2
Factorial of the number is:
2

In [4]:

```
1 #Python Program to reverse a number using loop
2 r=0
3 n=int(input('Enter a number: '))
4 while(n>0):
5     dig=n%10
6     r=r*10+dig
7     n=n//10
8 print('The reversed no is:')
9 print(r)
```

Enter a number: 2
The reversed no is:
2

In [15]:

```
1 #Write a Python program to construct the following pattern, using a nested for loop.
2
3 n=5;
4 for i in range(n):
5     for j in range(i):
6         print (' * ', end='')
7     print('')
8 for i in range(n,0,-1):
9     for j in range(i):
10         print(' * ', end='')
11     print(" ")
```

File "<ipython-input-15-96d8013d4f6c>", line 6
print (' * ', end'')

SyntaxError: invalid syntax

In [12]:

```
1 #Python Program to replace all occurrences of 'a' with '$' in a string.
2 string=input('Enter string:')
3 string=string.replace('a','$')
4 string=string.replace('A','$')
5 print('Modified string:')
6 print(string)
```

Enter string:1
Modified string:
1

In [16]:

```
1 #Python Program to remove the nth index character from a non-empty string.
2 def remove(string, n):
3     first = string[:n]
4     last = string[n+1:]
5     return first + last
6 string=input('Enter the string:')
7 n=int(input('Enter the index of the character to remove:'))
8 print('Modified string:')
9 print(remove(string, n))
```

Enter the string:2
Enter the index of the character to remove:2
Modified string:
2

In [17]:

```
1 #Python Program to detect if two strings are anagrams.
2 s1=input('Enter first string:')
3 s2=input('Enter second string:')
4 if(sorted(s1)==sorted(s2)):
5     print('The strings are anagrams.')
6 else:
7     print('The strings aren't anagrams.')
```

Enter first string:2
Enter second string:2
The strings are anagrams.

In [19]:

```
1 #Python Program to form a string where the first character and the last character
2 #have been exchanged.
3 def change(string):
4     return string[-1:] + string[1:-1] + string[:1]
5 string=input('Enter string:')
6 print('Modified string:')
7 print(change(string))
```

Enter string:2
Modified string:
22

In [22]:

```
1 #Python Program to count number of vowels from a non-empty string.
2 string=input('Enter string:')
3 vowels=0
4 for i in string:
5     if(i=='a' or i=='e' or i=='i' or i=='o' or i=='u' or i=='A' or i=='E' or i=='I' or
6 i=='U'):
7         vowels=vowels+1
8 print('Number of vowels are:')
9 print(vowels)
```

Enter string:2
Number of vowels are:
0

In [24]:

```
1 #Program for Divide by zero error detection
2 flag = True
3 def div(a, b):
4     try:
5
6         print('Finally the division of %d/%d is %f' % (a, b,a/b))
7         global flag
8         flag=False
9     except ZeroDivisionError:
10        print('Zero Division Error detected')
11    else:
12        print('Division is successful')
13    finally:
14        if flag is True:
15            print('Try again')
16        else:
17            print('Thank you')
18 #global flag
19 while flag is True:
20     div(int(input('Enter numerator')),int(input('Enter denominator')))
```

Enter numerator2
Enter denominator5
Finally the division of 2/5 is 0.400000
Division is successful
Thank you

In [26]:

```
1 #Program for ValueError error detection
2 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:
8         print('Oops! That was no valid number. Try again...')
```

Please enter a number: 22
That was valid number. Thank you

In []:

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