Python Program to find the factorial of a number using loop.

```
n=int(input("Enter number:"))
fact=1
while(n>0):
    fact=fact*n
    n=n-1
print("Factorial of the number is: ")
print(fact)

C> Enter number:5
    Factorial of the number is:
    120
```

Python Program to reverse a number using loop

```
r=0
n=int(input("Enter a number: "))
while(n>0):
    dig=n%10
    r=r*10+dig
    n=n//10
print("The reversed no is:")
print(r)

☐→ Enter a number: 123
    The reversed no is:
    321
```

Write a Python program to construct the pattern, using a neste

```
n=5;
for i in range(n):
   for j in range(i):
      print ('*', end="")
```

→ Python Program to replace all occurrences of 'a' with '\$' in a st

```
string=input("Enter string:")
string=string.replace('a','$')
string=string.replace('A','$')
print("Modified string:")
print(string)

Drint(string)

Enter string:abab
    Modified string:
    $b$b
```

→ Python Program to remove the nth index character from a non-

```
def remove(string, n):
    first = string[:n]
    last = string[n+1:]
    return first + last
string=input("Enter the sring:")
n=int(input("Enter the index of the character to remove:"))
```

```
print("Modified string:")
print(remove(string, n))

Enter the sring:hello world
    Enter the index of the character to remove:2
    Modified string:
    helo world
```

Python Program to detect if two strings are anagrams.

```
s1=input("Enter first string:")
s2=input("Enter second string:")
if(sorted(s1)==sorted(s2)):
  print("The strings are anagrams.")
else:
  print("The strings aren't anagrams.")

☐→ Enter first string:listen
  Enter second string:silent
  The strings are anagrams.
```

Python Program to form a string where the first character and been exchanged.

```
def change(string):
    return string[-1:] + string[1:-1] + string[:1]
string=input("Enter string:")
print("Modified string:")
print(change(string))

Description:
    Enter string:student
    Modified string:
    ttudens
```

## Python Program to count number of vowels from a non-empty

```
string=input("Enter string:")
vowels=0
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 i=='I' or i=='0' or i=='U'):
      vowels=vowels+1
print("Number of vowels are:")
print(vowels)

    Enter string:friends
      Number of vowels are:
      2
```

## Program for Divide by zero error detection

```
flag = True
def div(a, b):
 try:
   print("Finally the division of %d/%d is %f" % (a, b,a/b))
   global flag
   flag=False
 except ZeroDivisionError:
   print("Zero Division Error detected")
   print("Division is successful")
 finally:
   if flag is True:
      print("Try again")
   else:
      print("Thank you")
while flag is True:
 div(int(input("Enter numerator")),int(input("Enter denominator")))
□→ Enter numerator5
     Enter denominator0
     Zero Division Error detected
     Try again
     Enter numerator5
     Enter denominator2
     Finally the division of 5/2 is 2.500000
     Division is successful
     Thank you
```

## → Program for ValueError error detection