

```
In [1]: n=int(input("Enter number:"))
fact=1

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

Enter number:4
 Factorial of the number is:
 24

```
In [3]: 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: 121
 The reversed no is:
 121

```
In [4]: n=5;
for i in range(n):
    for j in range(i):
        print ('* ', end="")
    print('')

for i in range(n,0,-1):
    for j in range(i):
        print('* ', end="")
    print('')
```

```
*
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* * *
* *
*
```

```
In [5]: string=input("Enter string:")
string=string.replace('a','$')
string=string.replace('A','$')
print("Modified string:")
print(string)
```

Enter string:madan
Modified string:
m\$d\$n

```
In [6]: def remove(string, n):
        first = string[:n]
        last = string[n+1:]
        return first + last
string=input("Enter the string:")
n=int(input("Enter the index of the character to remove:"))
print("Modified string:")
print(remove(string, n))
```

Enter the string:madan
Enter the index of the character to remove:3
Modified string:
madn

```
In [7]: 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:madan
Enter second string:gudigar
The strings aren't anagrams.

```
In [8]: def change(string):
        return string[-1:] + string[1:-1] + string[:1]
string=input("Enter string:")
print("Modified string:")
print(change(string))
```

Enter string:madan
Modified string:
nadam

```
In [9]: 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=='O' or i=='U'):
        vowels=vowels+1
print("Number of vowels are:")
print(vowels)
```

```
Enter string:dieelp
Number of vowels are:
3
```

```
In [20]: 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")
    else:
        print("Division is successful")
    finally:
        if flag is True:
            print("Try again")
        else:
            print("Thank you")

#global flag

while flag is True:
    div(int(input("Enter numerator")),int(input("Enter denominator")))
```

```
Enter numerator5
Enter denominator3
Finally the division of 5/3 is 1.666667
Division is successful
Thank you
```

```
In [22]: while True:
    try:
        x = int(input("Please enter a number: "))
        print(" That was valid number. Thank you")
        break
    except ValueError:
        print("Oops! That was no valid number. Try again...")
```

```
Please enter a number: 2
That was valid number. Thank you
```

In []: