

```
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:6
 Factorial of the number is:
 720

```
In [2]: 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: 1245
 The reversed no is:
 5421

```
In [3]: 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 [4]: string=input("Enter string:")
string=string.replace('a','$')
string=string.replace('A','$')
print("Modified string:")
print(string)
```

Enter string:sathvik
 Modified string:
 s\$thvik

```
In [5]: 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:sathvik
 Enter the index of the character to remove:2
 Modified string:
 sahvik

```
In [6]: 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:sathvik
 Enter second string:sathvik
 The strings are anagrams.

```
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:sfsdgs
 Enter second string:sathvik
 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:sathvik
 Modified string:
 kathvis

```
In [10]: 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
       vowels=vowels+1
print("Number of vowels are:")
print(vowels)
```

Enter string:sathvik shetty
 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")

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

```
Enter numerator3
Enter denominator0
Zero Division Error detected
Try again
Enter numerator36
Enter denominator6
Finally the division of 36/6 is 6.000000
Division is successful
Thank you
```

```
In [21]: 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: r
Oops! That was no valid number. Try again...
Please enter a number: 567
That was valid number. Thank you
```