**Programmes**

even or odd  
n=int(input("enter the values:"))  
if n%2==0:  
 print("is even numbers")  
else:  
 print("is odd number")

output: enter the values:4

is even numbers  
# factorial  
n=int(input("enter values:"))  
fact=1  
for i in range(1,n+1):  
 fact=fact\*i  
 print(fact,end=' ')

output: enter values:5

120  
  
# fibonacci sequence  
n=0  
b=1  
for i in range(10):  
 res=n+b  
 n=b  
 b=res  
 print(res,end=' ')

Output: 1 2 3 5 8 13 21 34 55 89  
 # prime numbers or not  
n=int(input("enter values:"))  
count=0  
for i in range(1,n+1):  
 if n%i:  
 count+=1  
 if count==2:  
 print("is prime")  
 else:  
 print("is not Prime")

Output: enter values:7

is not Prime  
n1=1  
n2=100  
for i in range(1,n1+1):  
 count=0  
 for j in range(1,n2+1):  
 if i%j:  
 count+=1  
 if count==2:  
 print(i)  
# prime nubers sequence  
  
for i in range(1,101):  
 count=0  
 for j in range(1, i + 1):  
 if i % j ==0:  
 count+=1  
 if count == 2:  
 print(i,end=' ')

output:

1

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97  
# revserse of string  
str=input("enter a string:")  
rev=""  
for ch in str:  
 rev=ch+rev  
print("reverse of {} is {}".format(rev,str))

Output:irah  
# swap two numbers  
n=2  
b=4  
n,b=b,n  
print("after swaping",n,b)

Output:4,2  
  
# max vlue  
list=[]  
n=int(input("enter size:"))  
for i in range(n):  
 number=int(input("entervalues:"))  
 list.append(number)  
 print(max(list))

Output: enter size:4

entervalues:1

1

entervalues:2

2

entervalues:3

3

entervalues:4

4  
# Amstrong number  
n=int(input("enter values:"))  
sum=0  
temp=n  
while n > 0:  
 res=n%10  
 sum += res \*\* 3  
 n//=10  
if temp == sum:  
 print("amstrog number")  
else:  
 print("it is not amstrong number")

Output:Amstrong number  
 # palindrom number  
n=int(input("enter the values:"))  
sum=0;  
for i in range(n):  
 rev=n%10  
 sum=sum + 10 \* rev  
 n//=10  
 print(sum)

# palindrom number  
n=int(input("enter the values:"))  
sum=0;  
temp=n  
while n>0:  
 rev=n%10  
 sum=sum \*10 + rev  
 n//=10  
print(sum)  
if temp==sum:  
 print("palindrom")  
else:  
 print("not palindrom")

Output:palindrom  
# String palindrom  
str=input("enter the strng:")  
rev=""  
temp=str  
for i in str:  
 rev=i+rev  
print(rev)  
if rev==temp:  
 print("is palindrom")  
else:  
 print("is not palindrom")

# perfect numbers  
n=int(input("enter values"))  
res=0  
for i in range(1,n):  
 if(n%i==0):  
 res=res+i  
print(res)  
if(n==res):  
 print("is perfect number")  
else:  
 print("is not perfect number")  
 # min value  
list = [1, 2, 3, 4, 5, 2, 34]  
print(min(list))  
# sort list  
list =[2,3,4,5,6,1,2,3]  
list.sort()  
print(list)  
# leaper program  
import calendar  
year1=int(input("enter the year1"))  
year2=int(input("enter year2"))  
list=[]  
for x in range(int(year1),int(year2)):  
 if calendar.isleap(x):  
 print("leapyear:",int(x))  
 list.append(x)  
print(list)  
  
# count the values  
n=input("enter the values:")  
count=0  
for i in n:  
 if i in 'aeiou':  
 count+=1  
print(count)  
# count the number of digits  
n=int(input("enter the values"))  
count=0  
while n>0:  
 n//=10  
 count+=1  
print(count)  
# right angle triangle  
n=int(input("enter values:"))  
for i in range(1,n+1):  
 print("#" \* i)