Lab Assignment 1

2. weight= int(input("enter weight"))

if weight<=100:

charges=30

else:

wt=weight-100

multiple=wt/50

if multiple> int(multiple):

charges=30+((int(multiple)+1)\*10)

else:

charges=30+int(multiple)\*10

print(charges)

3.

list\_1=[]

for i in range(3):

a=int(input(" enter the first number:"))

list\_1.append(a)

for i in range(0,len(list\_1)):

for j in range(i+1, len(list\_1)):

if list\_1[i] >= list\_1[j]:

list\_1[i], list\_1[j] = list\_1[j], list\_1[i]

print(list\_1)

4.prime number

num = 11

# If given number is greater than 1

if num > 1:

for i in range(2, num+1):

# If num is divisible by any number between

# 2 and n / 2, it is not prime

if (num % i) == 0:

print(num, "is not a prime number")

break

else:

print(num, "is a prime number")

Armstrong number

num=int(input(" enter the number:"))

var\_length=len(str(num))

temp=num

sum=0

while temp>0:

rem=temp%10

sum=sum+rem\*\*var\_length

temp=temp//10

if sum==num:

print(" armstrong")

else:

print(" not armstrong")

Automorphic

num = **int**(input("Enter a number you want to check: \n"))

num\_of\_digits = len(str(num))

square = num\*\*

last\_digits = square%pow(10,num\_of\_digits)

**if** last\_digits == num:

  print("Yes, {} is an automorphic number".format(num))

**else**:

  print("No, {} is not an automorphic number".format(num))

5.

r=int(input("enter number of row"))

for i in range(r):

for k in range(i+1,r+1):

print(k-i,end="")

for n in range(i):

print(end=" ")

for j in range(r,i,-1):

print(j-i, end="")

print()