**PROGRAM NO.12**

#write a program for calculator

>>> a=500

>>> print(a)

500

>>> 200+600

800

>>> 200-600

-400

>>> 40\*6

240

>>> 3/1

3.0

>>> 36/2

18.0

>>> 36//2

18

>>> 45/2

22.5

>>> 45//2

22

>>>

[2]+ Stopped python3

**PROGRAM NO.13**

#using function

a=(int(input("enter the value of a")))

b=(int(input("enter the value of b")))

def add():

return a+b

def sub():

return a-b

def multy():

return a\*b

def division():

return a/b

def modulus():

return a%b

print("addition",add())

print("subtraction",sub())

print("multiplycation",multy())

print("division",division())

print("modulus",modulus())

**OUT PUT**:enter the value of a8

enter the value of b7

addition 15

subtraction 1

multiplycation 56

division 1.1428571428571428

modulus 1

**PROGRAM NO.14**

#program for simple calculator

i=int(input("enter the value of i:"))

j=int(input("enter the value of j:"))

o=input("what do u want to perform? +,-,\*,/:")

def add():

return i+j

def sub():

return i-j

def mult():

return i\*j

def division():

return i/j

if(o=='+'):

print("addidtion=",add())

elif(o=='-'):

print("subtraction=",sub())

elif(o=='\*'):

print("multiplycation=",mult())

elif(o=="/"):

print("devision=",division())

**OUTPUT**:python3 multyfuncition.py

enter the value of i:3

enter the value of j:4

what do u want to perform? +,-,\*,/:+

addidtion= 7

python3 multyfunction.py

enter the value of i:5

enter the value of j:4

what do u want to perform? +,-,\*,/:-

subtraction= 1

python3 multyfunction.py

enter the value of i:4

enter the value of j:6

what do u want to perform? +,-,\*,/:\*

multiplycation= 24

python3 multyfunction.py

enter the value of i:60

enter the value of j:5

what do u want to perform? +,-,\*,/:/

devision= 12.0

**PROGRAM NO.15**

#write a program to play the snake and ladder game

import random

count=0

def myroll():

return random.randint(1,6)

while (count<=100):

a=input("press 'r' to roll the dice,'q' to quit")

if(a=='r'):

r=myroll()

count=count+r

print("u got",r)

print("new position is",count)

if(count==8):

count=37

print("congrats!u climed the lader")

elif(count==11):

count=2

print("sorry!u got the snake")

elif(count==13):

count=34

print("congrats!u climed the lader")

elif(count==25):

count=4

print("sorry!u got the snake")

elif(count==38):

count=9

print("sorry!u got the snake")

elif(count==40):

count=68

print("congrats!u climed the lader")

elif(count==52):

count=81

print("congrats!u climed the lader")

elif(count==65):

count=46

print("sorry!u got the snake")

elif(count==76):

count=97

print("congrats!u climed the lader")

elif(count==89):

count=70

print("sorry!u got the snake")

elif(count==93):

count=64

print("sorry!u got the snake")

elif(count>100):

count=count-r

print("sorry!grater than 100 position is not accepted")

elif(count==100):

print("congratulation!u won the game")

break

**OUTPUT**:python3 sandl.py

press 'r' to roll the dice,'q' to quitr

u got 5

new position is 5

press 'r' to roll the dice,'q' to quitr

u got 3

new position is 8

congrats!u climed the lader

press 'r' to roll the dice,'q' to quitr

u got 6

new position is 43

press 'r' to roll the dice,'q' to quitr

u got 5

new position is 48

press 'r' to roll the dice,'q' to quitr

u got 5

new position is 53

press 'r' to roll the dice,'q' to quitr

u got 4

new position is 57

press 'r' to roll the dice,'q' to quitr

u got 6

new position is 63

press 'r' to roll the dice,'q' to quitr

u got 2

new position is 65

sorry!u got the snake

press 'r' to roll the dice,'q' to quitr

u got 6

new position is 52

congrats!u climed the lader

press 'r' to roll the dice,'q' to quitr

u got 1

new position is 82

press 'r' to roll the dice,'q' to quitr

u got 4

new position is 86

press 'r' to roll the dice,'q' to quitr

u got 3

new position is 89

sorry!u got the snake

press 'r' to roll the dice,'q' to quitr

u got 4

new position is 74

press 'r' to roll the dice,'q' to quitr

u got 2

new position is 76

congrats!u climed the lader

press 'r' to roll the dice,'q' to quitr

u got 4

new position is 101

sorry!grater than 100 position is not accepted

press 'r' to roll the dice,'q' to quitr

u got 1

new position is 98

press 'r' to roll the dice,'q' to quitr

u got 1

new position is 99

press 'r' to roll the dice,'q' to quitr

u got 3

new position is 102

sorry!grater than 100 position is not accepted

press 'r' to roll the dice,'q' to quitr

u got 4

new position is 103

sorry!grater than 100 position is not accepted

press 'r' to roll the dice,'q' to quitr

u got 1

new position is 100

congratulation!u won the game