PROGRAMING WITH PYTHON DIMPLE.V

**PROGRAM** **-12**  ECE 1ST SEM

>>> a=10 SEC C;CL2

>>> a

10

>>> 2\*5

10

>>> 5-2

3

>>> 5/5

1

>>> 25//23

1

>>> 23//25

0

>>> 2\*\*5

32

>>> 5\*\*2

25

>>> 25+5

30

**PROGRAM-13**

#using functions

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

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

def add():

c=a+b

return c

def sub():

d=a-b

return d

def div():

e=a/b

return e

def multi():

f=a\*b

return f

res=add()

res1=sub()

res3=div()

res4=multi()

print("addition of a and b"res)

print("subtraction of a and b"res1)

print("division of a and b"res3)

print("multiplication of a and b"res4)

OUTPUT

enter the value of a

20

enter the value of b

10

addition of a and b30

subtraction of a and b10

division of a and b2

multiplication of a and b200

**PROGRAM-14**

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

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

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

def add():

return i+j

def sub(a,b):

return a-b

def mult(a,b):

return a\*b

def divide(a,b):

return a/b

if(o=='+'):

print("addition=",add())s

elif(o=='-'):

print("subtraction=",sub(50,80))

elif(o=='\*'):

res=mul(i,j)

print("multiplication="res)

elif(o=='/'):

print("division="div(i,j))

**PROGRAM-15**

import random

count=0

def myroll():

return random.randint(1,6)

while(count<=100):

n=input("press r to roll the dice")

if(n=='r'):

r=myroll()

count=count+r

print("u got",r)

print("new position is",count)

if(count==8):

count=37

print("i got the ladder")

elif("count==11"):

count=2

print("sorry,u got the snake")

elif(count==13):

count=34

print("i got the ladder")

elif(count==25):

count=4

print("sorry,u got the snake")

elif(count==38):

count=9

print("sorry,u got bit by the snake")

elif(count==40):

count=68

print("yayy,u got the ladder")

elif(count==52):

count=81

print("woah,u got the ladder")

elif(count==65):

count=46

print("ohh,u got bitten by the snake")

elif(count==76):

count=97

print("congo,u got the ladder")

elif(count==89):

count=70

print("sry,got bitten by the snake")

elif(count==93):

count=64

print("got bitten by the snake")

elif(count>=100):

print("you won the game")

**OUTPUT**

press r to roll the dicer

u got 4

new position is 4

sorry,u got the snake

press r to roll the dice5

press r to roll the dicer

u got 6

new position is 8

i got the ladder

press r to roll the dice6

press r to roll the dicer

u got 3

new position is 40

sorry,u got the snake

press r to roll the dicer

u got 2

new position is 4

sorry,u got the snake

press r to roll the dicer

u got 2

**PROGRAM-16**

import random

p={1:'r',2:'p',3:'s'}

while True:

yc=input("YOU CHOOSE: r/p/s: ")

cc=p[random.randint(1,3)]

print("computer gave: ",cc)

if(yc=='r' and cc=='p'):

print("computer wins the game")

elif(yc=='s' and cc=='p'):

print("you win the game")

elif(yc=='r' and cc=='s'):

print("you win the game")

elif(yc=='r' and cc=='p'):

print("computer wins the game")

**OUTPUT**

YOU CHOOSE: r/p/s: r

computer gave: s

you win the game

YOU CHOOSE: r/p/s: S

computer gave: s

YOU CHOOSE: r/p/s: T

computer gave: r

YOU CHOOSE: r/p/s: