# 1.#write a program to defining a function and to call a function

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***SUB CODE-4BCS105***

***PROGRAMMING WITH PYTHON { PROJECT-3}***

**#intake 2 values**

a=int(input("value1:"))

b=int(input("value2:"))

**#define a function**

def add():

return a+b

def sub():

return a-b

def mul():

return a\*b

def div():

return a/b

**#calling a function**

print("addition of a and b:",add())

print("subraction of a and b:",sub())

print("multiplication of a and b:",mul())

print("division of a and b:",div())

**output:**

value1:8

value2:4

addition of a and b:12

subraction of a and b:4

multiplication of a and b:32

division of a and b:2

**2.#write a programm to play snake and ladder**

import random

p=0

**#use while loop and add the conditions**

while(p<=100):

**#roll a die**

a=input("enter r or q:")

if(a=='r'):

r=(random.randint(1,6))

p=p+r

**#print position and number in dice**

print("my position:",p)

print("num in dice:",r)

**#position of snakes and ladders**

if(p==8):

print("congrats u can climb the ladder")

p=37

elif(p==11):

print("oops sry u r bite by snake")

p=2

elif(p==13):

print("congrats u can climb the ladder")

p=34

elif(p==25):

print("oops sry u r bite by snake")

p=4

elif(p==38):

print("oops sry u r bite by snake")

p=9

elif(p==40):

print("congrats u can climb the ladder")

elif(p==52):

print("congrats u can climb the ladder")

p=81

elif(p==65):

print("oops sry u r bite by snake")

p=46

elif(p==76):

print("congrats u can climb the ladder")

p=97

elif(p==89):

print("oops sry u r bite by snake")

p=70

elif(p==93):

print("oops sry u r bite by snake")

p=64

**#limit of the game is 100**

elif(p>=100):

p=p-r

print("congrats u won the game")

**#to quit**

if(a=='q'):

print("bye")

exit()

**output:**

enter r or q:r

6

my position:6

num in dice:6

enter r or q:r

2

my position:8

num in dice:2

congrats u can climb the ladder

enter r or q:r

5

my position:42

num in dice:5

enter r or q:r

4

my position:46

num in dice:4

enter r or q:r

6

my position:52

num in dice:6

congrats u can climb the ladder

enter r or q:r

4

my position:86

num in dice:4

enter r or q:r

1

my position:87

num in dice:1

enter r or q:r

2

my position:89

num in dice:2

oops sry u r bite by snake

enter r or q:r

5

my position:75

num in dice:5

enter r or q:r

1

my position:76

num in dice:1

congrats u can climb the ladder

enter r or q:r

3

my position:100

num in dice:3

congrats u won the game

enter r or q:q

bye