#to add two nos

n1=int(input('enter first no '))

n2=int(input('enter second no '))

sum=n1+n2

print('the sum of ',n1 ,'and ',n2 ,'is ',sum)

enter first no 3

enter second no 4

the sum of 3 and 4 is 7

#area of triangle

b=int(input('enter base '))

h=int(input('enter height '))

area=0.5\*b\*h

print('the area of the triangle is ',area)

enter base 4

enter height 8

the area of the triangle is 16.0

#square root

n = int(input('Enter a number: '))

sqrt = n\*\* 0.5

print('The square root of ',n ,'is ',sqrt)

Enter a number: 64

The square root of 64 is 8.0

#quadratic eqn solution

a = int(input('Enter a: '))

b = int(input('Enter b: '))

c = int(input('Enter c: '))

d = (b\*\*2) - (4\*a\*c)

r1 = (-b+(d\*\*0.5))/(2\*a)

r2 = (-b-(d\*\*0.5))/(2\*a)

print('The roots are ',r1 ,'and ',r2)

Enter a: 2

Enter b: -11

Enter c: 5

The roots are 5.0 and 0.5

#fahrenheit to celsius

f=float(input('enter temperature in fahrenheit'))

c=(5/9)\*(f-32)

print('the temperature in celsius is ',c)

enter temperature in fahrenheit32

the temperature in celsius is 0.0

#quotient and remainder

d1=int(input('enter dividend '))

d2=int(input('enter divisor '))

q=d1//d2

r=d1%d2

print('the quotient is ',q)

print('the remainder is ',r)

enter dividend 72

enter divisor 4

the quotient is 18

the remainder is 0

#swap two nos

a = int(input('Enter a number: '))

b= int(input('Enter another number: '))

temp=a

a = b

b= temp

print('The value of a after swapping: ',a)

print('The value of b after swapping: ',b)

Enter a number: 2

Enter another number: 67

The value of a after swapping: 67

The value of b after swapping: 2

#average of 3 marks

m1 = float(input('Enter marksin eng: '))

m2 = float(input('Enter marks in maths: '))

m3 = float(input('Enter marks in science: '))

avg=(m1+m2+m3)/3

print('the average of three marks is ',avg)

Enter marks in eng: 90

Enter marks in maths: 95

Enter marks in science: 100

the average of three marks is 95

#simple interest

p= float(input('Enter principal: '))

n = int(input('Enter no of years: '))

r = float(input('Enter rate of interest: '))

i=(p\*n\*r)/100

print('the simple interest is ',i)

Enter principal: 100

Enter no of years: 3

Enter rate of interest: 15

the simple interest is 45.0

#net pay

basic\_pay=float(input('enter basic\_pay '))

hr=0.03\*basic\_pay

da=0.05\*basic\_pay

deduction=0.02\*basic\_pay

net\_pay=basic\_pay+hr+da-deduction

print('the net pay is ',net\_pay)

enter basic\_pay 24000

the net pay is 25440.0