1. Ramesh's basic salary is input through the keyboard. His dearness allowance is 40% of basic salary,and house rent allowance is 20% of basic salary. Write a program to calculate his gross salary.

In [93]:
```
r_salary=eval(input("enter your basic salary"))
dr_allowance= r_salary*0.4
re_allowance=r_salary*0.2
gross_salary= round(r_salary+dr_allowance+re_allowance,2)
print(f"ramesh gross salary is:{gross_salary}")
```

```
ramesh gross salary is:128000.0
```

2.The distance between two cities (in km.) is input through the keyboard. Write a program to convert and print this distance in meters, feet, inches and centimeters.

In [94]:
```
dis_km=eval(input("enter distance between two city in km"))
dis_meter=dis_km*1000
dis_feet=dis_km*3280.84
dis_inch=dis_feet*12
dis_cm=dis_meter*100
print(f"kilometer to meter:{dis_meter},feet:{dis_feet},inch:{dis_inch},centimeter:{
```

```
kilometer to meter:50000,feet:164042.0,inch:1968504.0,centimeter:5000000
```

3.If the marks obtained by a student in five different subjects are input through the keyboard, find out the aggregate marks and percentage marks obtained by the student.Assume that the maximum marks that can be obtained by a student in each subject is 100.

In [95]:
```
fst_sub=eval(input("enter your marks:"))
snd_sub=eval(input("enter your marks:"))
trd_sub=eval(input("enter your marks:"))
frt_sub=eval(input("enter your marks:"))
fiv_sub=eval(input("enter your marks:"))
total_marks= fst_sub+snd_sub+trd_sub+frt_sub+fiv_sub
pernt_marks=total_marks/5
print(f"total marks:{total_marks}, percentage marks:{pernt_marks}")
```

```
total marks:405, percentage marks:81.0
```

4.Temperature of a city in Fahrenheit degrees is input through the keyboard. Write a program to convert this temperature into Centigrade degrees.

In [96]:
```
frhit_temp=eval(input("Enter temprature in fahrenheit"))
cel_temp=(frhit_temp-32)*5/9
print(f"Centegrade temperture of city is:{cel_temp}")
```

```
Centegrade temperture of city is:36.888888888888886
```

5.The length & breadth of a rectangle and radius of a circle are input through the keyboard. Write a program to calculate the area & perimeter of the rectangle, and the area & circumference of the circle.

In [97]:
```
lenth=eval(input("Enter the length of rectangle:"))
brth=eval(input("Enter the breath of rectangle:"))
area_rect=lenth*brth
peri_rect=(lenth+brth)*2
print(f"the perimeter of rectangle is:{peri_rect}, the area of rectangle is:{area_r
import math
pi=math.pi
cir_radius=eval(input("Enter the radius of circle:"))
area_cir= pi*cir_radius*cir_radius
cirfnc_cir=2*pi*cir_radius
print(f"the area of circle is:{area_cir},the circumference is:{cirfnc_cir}")
```

```
the perimeter of rectangle is:166, the area of rectangle is:1702
the area of circle is:201.06192982974676,the circumference is:50.26548245743669
```

6.Two numbers are input through the keyboard into two locations C and D.Write a program to interchange the contents of C and D.

In [98]:
```
c_content=eval(input("write your massage:"))
d_content=eval(input("write your massage:"))
c_content,d_content=d_content,c_content
print(c_content)
print(d_content)
#dought sir when we makes different line does give right answer.why?
```

```
67
45
```

7.If a five-digit number is input through the keyboard, write a program to reverse the number.

In [99]:
```
num=int(input("Enter the five-digit number:"))
f1=num//10000
f2=num%10000
f3=f2//1000
f4=f2%1000
f5=f4//100
f6=f4%100
f7=f6//10
f8=f4%10
print(f8,f7,f5,f3,f1,sep='')
```

```
87654
```

8.If a four-digit number is input through the keyboard,write a program to obtain the sum of the first and last digit of this number.

In [100…
```
num=int(input("enter the four-digit number:"))
num1=num//1000
num2=num%10
sum=num1+num2
print(f" the sum of frist and last number is:{sum}")
```

```
the sum of frist and last number is:15
```

9.In a town, the percentage of men is 52. The percentage of total literacy is 48. If total percentage of literate men is 35 of the total population,write a program to find the total number of illiterate men and women if the population of the town is 80,000.

In [101…
```
total_population=int(input("Enter population"))
man_population=total_population*eval(input("enter man presentage"))/100
total_lit_man=total_population*eval(input("enter lit_man presentage"))/100
literacy=total_population*eval(input("enter literacy population"))/100
women_population=total_population-man_population
illiterate=total_population-literacy
illter_man=man_population-total_lit_man
lit_women=literacy-total_lit_man
illter_women=women_population-lit_women
total_illiterate=illter_man+illter_women
print(f"total illiterate population is:{total_illiterate}")
```

```
total illiterate population is:41600.0
```

10.A cashier has currency notes of denominations 10, 50 and 100. If the amount to be withdrawn is input through the keyboard in hundreds, find the total number of currency notes of each denomination the cashier will have to give to the withdrawer

In [102…
```
import random
with_amount=int(input())
hudr_no=random.randint(1,10)
fift_no=random.randint(2,8)
ten_no=random.randint(5,10)
number_of_note=hudr_no+fift_no+ten_no
with_amount=100*hudr_no+50*fift_no+10*ten_no
print(f"total no of note {hudr_no},{fift_no},{ten_no} is {number_of_note}")
```

```
total no of note 8,8,10 is 26
```

In [ ]: