	Q1.Create a program that displays your name and complete mailing address formatted in the manner that you would usually see it on the outside of an envelope. Your program does not need to read any input from the user
In [1]:	<pre>Name=input('Enter your Name:') Address=input('Enter your Address:') print('Name:',Name) print('Address:', Address)</pre>
	<pre>print('Address:',Address) Enter your Name:Aravindh Enter your Address:aravindh609404@gmail.com Name: Aravindh</pre>
T. [2]	Q2.Write a program that asks the user to enter his or her name. The program should respond with a message that says hello to the user, using his or her name.
In [2]:	<pre>print('The string entered is str:',str) print('Hello',str) enter your name:Aravindh</pre>
	The string entered is str: Aravindh Hello Aravindh Q3.Write a program that accepts radius (datatype: float) of a circle from the user. Calculate and
In [4]:	display the area and circumference of the circle radius=float(input('Enter the radius of the circle:'))
	area=2.56*radius*radius circum=2*2.56*radius print("The area of the circle:",area) print("The circumference of the circle:",circum) Enter the radius of the circle:25
	The area of the circle: 1600.0 The circumference of the circle: 128.0
	Q4.Write a program that accepts length and breadth (both float) of a rectangle from the user. Calculate and display the area and perimeter of the rectangle
In [5]:	L=float(input('Enter the length of Rectangle:')) B=float(input('Enter the Breadth of Rectangle:')) Area=L*B perimeter=2*(L+B) print('Area of Rectangle:' Area)
	<pre>print('Area of Rectangle:',Area) print('perimeter of Rectangle:',perimeter) Enter the length of Rectangle:7.5 Enter the Breadth of Rectangle:5 Area of Rectangle: 37.5</pre>
	Q5.Write a program to accept the side (datatype: float) of a square from the user. Calculate and
In [7]:	display the area and perimeter of the square s=float(input('Enter the side of the square:')) Area=s*s
	<pre>perimeter=4*s print('Area of square:',Area) print('perimeter of square:',perimeter)</pre> Enter the side of the square:5.9
	Area of square: 34.81 perimeter of square: 23.6 O6 Write a program to account the temperature (datatype: fleat) in Fahrenheit and convert it into
	Q6.Write a program to accept the temperature (datatype: float) in Fahrenheit and convert it into Centigrade. Modify the program to accept the temperature in Centigrade and convert it into Fahrenheit
In [8]:	<pre>centigrade=float(input('enter the centigrade:')) fahrenheit=(centigrade * 1.8)+32 print('The temperature of the faherenheit',fahrenheit) faherenheit=float(input('enter the faherenheit:')) colsius=(faherenheit=32)/1.8</pre>
	<pre>celsius=(faherenheit-32)/1.8 print('The temperature of the centigrade',centigrade) enter the centigrade:23 The temperature of the faherenheit 73.4 enter the faherenheit:23</pre>
	The temperature of the centigrade 23.0 Q7.Write a program to accept two complex numbers. Perform addition, subtraction and
	multiplication of these numbers an display the results to the user #Addition al=complex(input('Enter your first complex number:'))
	a2=complex(input('Enter your second complex number:')) b=a1+a2 print("The sum of a1 and a2:",b) #Subraction
	a1=complex(input('Enter your first complex number:')) a2=complex(input('Enter your second complex number:')) b=a2-a1 print("The subraction of a2 and a1:",b)
	<pre>#Multiplication a1=complex(input('Enter your first complex number:')) a2=complex(input('Enter your second complex number:')) b=a1*a2</pre>
	print("The Multiplication of a1 and a2:",b) Enter your first complex number:9+1; Enter your second complex number:7+4; The sum of a1 and a2: (16+5j) Enter your first complex number:3+8j
	Enter your second complex number:10-7j The subraction of a2 and a1: (7-15j) Enter your first complex number:4+8j Enter your second complex number:2+3j The Multiplication of a1 and a2: (-16+28j)
	Q8.Write a program to accept the name and basic salary (datatype: float) of an employee. Calculate the dearness allowance as 40 % of basic and house rent allowance as 20 % of basic. Display the gross
In [10]:	salary to the user. (Hint: gross salary = basic salary + dearness allowance + house rent allowance) str1=input('enter your name:')
	<pre>print('The string entered is:',str1) Basic=float(input('enter the basic salary:')) DA=float(Basic*0.4) HRA=float(Basic*0.2) Grosspay=float(Basic+DA+HRA)</pre>
	<pre>print('Dearness allowances:',DA),print('House rent allowances:',HRA),print('Gross salary:',Grosspay) enter your name:Aravindh The string entered is: Aravindh enter the basic salary:25000</pre>
Out[10]:	Dearness allowances: 10000.0 House rent allowances: 5000.0 Gross salary: 40000.0 (None, None, None)
	Q9. Write a program that reads a positive integer, n, from the user and then displays the sum of all of the integers from 1 to n. The sum of the first n positive integers can be computed using the formula:
	sum = (n)(n + 1)/2 $n=int(input('input a number:'))$ $sum=(n*(n+1)/2)$
	<pre>input a number:8 36.0</pre>
	Q10.Create a program that reads two integers, a and b, from the user. Your program should compute and display:
	a.The sum of a and b
	b.The difference when b is subtracted from a c.The product of a and b
	d.The quotient when a is divided by b
	e.The remainder when a is divided by b
In [12]:	f.The result of ab #The sum of a and b:
	<pre>a=int(input('Number1:')) b=int(input('Number2:')) sum=a+b print(sum)</pre>
	<pre>#The difference when b is subtracted from a: a=int(input('Number1:')) b=int(input('Number2:')) difference=b-a</pre>
	<pre>#The product of a and b: a=int(input('Number1:'))</pre>
	<pre>b=int(input('Number2:')) multiply=a*b print(multiply) #The quotient when a is divided by b:</pre>
	<pre>a=int(input('Number1:')) b=int(input('Number2:')) divide=a/b print(divide)</pre>
	Number1:60 Number2:20 80 Number1:20
	Number2:60 40 Number1:20 Number2:5 100
In [13]:	Number1:100 Number2:5 20.0 #The remainder when a is divided by b: a=int(input('Number1:'))
	<pre>b=int(input('Number2:')) reminder=a%b print(reminder)</pre>
	<pre>#The result of ab: a=int(input('Number1:')) b=int(input('Number2:')) power=a**b print(power)</pre>
	<pre>print(power) Number1:15 Number2:1 0 Number1:2</pre>
In []:	Number1:2 Number2:2 4
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