	<pre>print("average marks is:", max(avg1, avg2, avg3))</pre>
	enter 3 tests marks: enter 1st test marks:2 enter 2nd test marks:4 enter 3rd test marks:5 average of num1 and num2=: 3.0 average of num1 and num3=: 3.5 average of num2 and num3=: 4.5 average marks is: 4.5
In [10]:	<pre>#count down numbers n=int(input("enter a num:")) while n&gt;=0: #number greater than and =0 is printed     print(n)     n=n-1 print("over") enter a num:5</pre>
	5 4 3 2 1 0 over
in [11]:	<pre>#program to calculate the distance between 2 points print("program to calculate the distance between 2 points") import math x1=float(input("Enter x1:")) y1=float(input("Enter y1:")) x2=float(input("Enter x2:")) y2=float(input("Enter y2:")) c1=(x2-x1) c2=(y2-y1)</pre>
	print("Distance is:", (math.sqrt((c1**2)+(c2**2))))  program to calculate the distance between 2 points Enter x1:4 Enter y1:2 Enter x2:6 Enter y2:4 Distance is: 2.8284271247461903
[n [13]:	<pre>#if else i=int(input("enter a number:")) if i&lt;=10:     print("con true") else:     print("con false")</pre>
In [14]:	<pre>enter a number:4 con true  #Program to find the largest of 3 numbers print("Program to find the largest of 3 numbers") num1 = float(input("Enter first number: ")) num2 = float(input("Enter second number: ")) num3 = float(input("Enter third number: "))</pre>
	<pre>num3 = float(input("Enter third number: "))  if (num1 &gt;= num2) and (num1 &gt;= num3):     largest = num1  elif (num2 &gt;= num1) and (num2 &gt;= num3):     largest = num2  else:     largest = num3</pre>
	<pre>print("The largest number is", largest)  Program to find the largest of 3 numbers Enter first number: 10 Enter second number: 9 Enter third number: 6 The largest number is 10.0</pre>
īn [15]:	<pre>#program to find wether the year is leap year or not y=int(input("enter a year:")) if(y%4==0 and y%100!=0 or y%400==0):     print("the year is leap year:") else:     print("the year is not a leap year:")</pre> enter a year:2020
[n [16]:	<pre>#program to see in which qudrant it lies print("enter the 2 points:") x=int(input("enter the 1st point:")) y=int(input("enter the 2nd point:"))</pre>
	<pre>if(x&gt;0 and y&gt;0):     print("lies in 1st qudrant:") elif(x&lt;0 and y&gt;0):     print("lies in 2nd qudrant:") elif(x&lt;0 and y&lt;0):     print("lies in 3rd qudrant:") elif(x&gt;0 and y&lt;0):     print("lies in 4th qudrant:")</pre>
	<pre>elif(x==0 and y==0):     print("lies in origin:")  enter the 2 points: enter the 1st point:2 enter the 2nd point:4 lies in 1st qudrant:</pre>
In [17]:	<pre>def common_data(list1, list2):     result = False     for x in list1:         for y in list2:             if x == y:                 result = True                  return result print(common_data([1,2,3,4,5], [5,6,7,8,9]))</pre>
In [18]:	<pre>print(common_data([1,2,3,4,5], [3,0,7,8,9]))  True None  #program to check wether the number is +ve, -ve or 0 n=int(input("enter the number:")) if(n&gt;0):</pre>
	<pre>print("n is positive:") elif(n&lt;0):     print("n is negative:") else:     print("n is 0:")  enter the number:4 n is positive:</pre>
[19]:	<pre>#program to find a reverse of a number n=int(input("enter a number:")) rev=0 while(n&gt;0):     dig=n%10     rev=rev*10+dig</pre>
In [20]:	
	<pre>#quadratic equation = ax^2+bx^2+c=0  #if discriminant &gt; 0 then it is distinct #root1=-b+square root of b^2-4ac/2a #root2=-b-square root of b^2-4ac/2a  #if discriminant=0 equal and real roots #root1=root2=-b/a</pre>
	<pre>#if discriminant&lt;0 complex roots #root1=-b/2a+i(sqrt of -(b^2-4ac)/2a)) #root2=-b/2a-i(sqrt of -(b^2-4ac)/2a))  import math a=int(input("enter a value of a quadratic equation:")) b=int(input("enter a value of a quadratic equation:"))</pre>
	<pre>c=int(input("enter a value of a quadratic equation:"))  discriminant=(b*b)-(4*a*c)  if(discriminant&gt;0):     root1=(-b+math.sqrt(discriminant)/(2*a))     root2=(-b-math.sqrt(discriminant)/(2*a))     print("two distinct real roots exists: root1=%.2f and root2=%.2f" %( root1, root2))</pre>
	<pre>elif(discriminant==0):     root1=root2=-b/(2*a)     print("two equal and real roots exists: root1=%.2f and root2=%.2f" % (root1,root2)) elif(discriminant&lt;0):     root1=root2=-b/(2*a)     imaginary = math.sqrt(-discriminant)/(2*a)</pre>
In [21]:	<pre>enter a value of a quadratic equation:4 enter a value of a quadratic equation:6 enter a value of a quadratic equation:2 two distinct real roots exists: root1=-5.75 and root2=-6.25  #program to simulate a simple calculator  def add(x,y):</pre>
	<pre>return x+y  def subtract(x,y):     return x-y  def mulitply(x,y):     return x*y</pre>
	<pre>def divide(x,y):     return x/y  print("select operation") print("1 add") print("2 sub") print("3 mul") print("4 div")</pre>
	<pre>while True:     choice = input("Enter choice(1/2/3/4): ")  # Check if choice is one of the four options     if choice in ('1', '2', '3', '4'):         num1 = int(input("Enter first number: "))         num2 = int(input("Enter second number: "))</pre>
	<pre>if choice == '1':     print(num1, "+", num2, "=", add(num1, num2))  elif choice == '2':     print(num1, "-", num2, "=", subtract(num1, num2))  elif choice == '3':     print(num1, "*", num2, "=", multiply(num1, num2))</pre>
	<pre>print(num1, "*", num2, "=", multiply(num1, num2))  elif choice == '4':     print(num1, "/", num2, "=", divide(num1, num2))     break else:     print("Invalid Input")</pre>
	<pre>#otherwise:     # if choice == '1':         # num0=num1+num2         # print(num1, "+", num2, "=",num0)  #elif choice == '2':         # num0=num1-num2         # print(num1, "-", num2, "=",num0)</pre>
	<pre>#elif choice == '3':     # num0=num1*num2     # print(num1, "*", num2, "=", num0)  # elif choice == '4':     # num0=num1/num2     # print(num1, "/", num2, "=", num0)</pre>
	select operation  1 add  2 sub  3 mul  4 div  Enter choice(1/2/3/4): 2  Enter first number: 4  Enter second number: 7
In [22]:	<pre>#program to calculate sum and average of 1st 10 numbers sum=0 for i in range(10):     sum=sum+i     avg=sum/10</pre>
In [24]:	<pre>print("sum", sum) print("avg", avg)  sum 45 avg 4.5  #program to calculate the digits of a number num=int(input("enter a number"))</pre>
	<pre>sum=0 while num!=0:     digit=num%10  #extracts unit place digit of num     num=num//10  #obtains other place digit except unit place of num     sum=sum+digit print("sum of the digits", sum)</pre> enter a number234 <pre>cum of the digits 0</pre>
in [26]:	<pre>#Program to add 2 integers  num1, num2=input("enter two num").split() num1=int(num1) num2=int(num2) res=num1+num2</pre>
	<pre>p=num1-num2 r=num1*num2 e=num1/num2 s=num1%num2 ress=num1//num2 print("sum of num1 and num2 =",res) print("sum of num1 and num2 =",p) print("sum of num1 and num2 =",r)</pre>
	<pre>print("sum of num1 and num2 =",e) print("sum of num1 and num2 =",s) print("sum of num1 and num2 =",ress)  enter two num2 4 sum of num1 and num2 = 6 sum of num1 and num2 = -2 sum of num1 and num2 = 8 sum of num1 and num2 = 0.5</pre>
In [27]:	<pre>sum of num1 and num2 = 2 sum of num1 and num2 = 0  #program to find the type of triangle print("enter 3 sides of a triangle:") x=int(input("enter the 1st side of the traiangle:")) y=int(input("enter the 2nd side of the traiangle:"))</pre>
	<pre>z=int(input("enter the 3rd side of the traiangle:")) if x==y==z:     print("it is an equilateral triangle:") elif x==y or x==z or y==z:     print("it is an isosceles triangle:") else:     print("it is a scalene triangle:")</pre>
[n [30]:	enter 3 sides of a triangle: enter the 1st side of the traiangle:4 enter the 2nd side of the traiangle:2 enter the 3rd side of the traiangle:6 it is a scalene triangle:  #program to check wether the character entered is vowel or not n=input("enter a character:")
	<pre>if(n=="a" or n=="A" or n=="e" or n=="E" or n=="i" or n=="I"   or n=="o" or n=="o" or n=="u" or n=="U"):     print("it is a vowel:") else:     print("it's a consonant:")</pre>
In [1]:	<pre>#program to print the digit at one's place of number print("program to print the digit at one's place:") x=int(input("enter a number")) y=x%10 print("the digit at one's place =",y)</pre>
In [2]:	<pre>program to print the digit at one's place: enter a number236 the digit at one's place = 6  #program to convert fahernheit into celisus fahernheit=float(input("enter the temperature:")) celsius=(fahernheit-32)*5/9 print("temperature in celsius=",celsius)</pre>
In [3]:	enter the temperature:99 temperature in celsius= 37.222222222222222222222222222222222222
	<pre>enetr the number4 result= 257</pre>
In [5]:	<pre>#Program to find whether a 3-digit number is armstrong number or not. num = int(input("Enter a number: ")) org,sum=num,0</pre>
In [5]:	<pre>num = int(input("Enter a number: ")) org, sum=num, 0 while num &gt; 0:     digit = num % 10     sum += digit ** 3     num //= 10 #end of while if org == sum:     print(org, "is an Armstrong number") else:</pre>
	<pre>num = int(input("Enter a number: ")) org, sum=num, 0 while num &gt; 0:     digit = num % 10     sum += digit ** 3     num //= 10 #end of while if org == sum:     print(org, "is an Armstrong number") else:     print(org, "is not an Armstrong number") #end  Enter a number: 153 153 is an Armstrong number  #program to read "n" numbers from the user and computes the sum of numbers that are divisble by 3</pre>
	<pre>num = int(input("Enter a number: ")) org, sum=num, 0 while num &gt; 0:     digit = num % 10     sum += digit ** 3     num //= 10 #end of while if org == sum:     print(org, "is an Armstrong number") else:     print(org, "is not an Armstrong number") #end  Enter a number: 153 153 is an Armstrong number #program to read "n" numbers from the user and computes the sum of numbe</pre>
	<pre>num = int(input("Enter a number: ")) org, sum=num, 0 while num &gt; 0:     digit = num % 10     sum += digit ** 3     num //= 10 #end of while if org == sum:     print(org, "is an Armstrong number") else:     print(org, "is not an Armstrong number") #end  Enter a number: 153 153 is an Armstrong number  #program to read "n" numbers from the user and computes the sum of numbe rs that are divisble by 3 n=int(input("enter the range of numbers u want to enter:")) sum=0 for i in range(1,n+1):     x=int(input("enter a number:"))     if x%3!=0:         continue     else:         sum+=x enter the range of numbers u want to enter:3 enter a number:6 enter a number:1 sum= 15  #Write a Program that keeps reading numbers from the user and terminates</pre>
In [8]:	<pre>num = int(input("Enter a number: ")) org, sum=num, 0 while num &gt; 0:     digit = num % 10     sum += digit ** 3     num //= 10 #end of while if org == sum:     print(org, "is an Armstrong number") else:     print(org, "is not an Armstrong number") #end  Enter a number: 153 153 is an Armstrong number  #program to read "n" numbers from the user and computes the sum of numbe rs that are divisble by 3 n=int(input("enter the range of numbers u want to enter:")) sum=0 for i in range(1, n+1):     x=int(input("enter a number:"))     if x%3!=0:         continue     else:         sum+=x enter the range of numbers u want to enter:3 enter a number:6 enter a number:9 enter a number:1 sum= 15</pre>
In [8]:	num = int(input("Enter a number: ")) org, sum=num, 0 while num > 0:     digit = num % 10     sum += digit ** 3     num //= 10 #end of while if org == sum:     print(org, "is an Armstrong number") else:     print(org, "is not an Armstrong number") #end  Enter a number: 153 153 is an Armstrong number  #program to read "n" numbers from the user and computes the sum of numbers that are divishle by 3 n=int(input("enter the range of numbers u want to enter:")) sum=0 for i in range(1, n+1):     x=int(input("enter a number:"))     if x%3!=0:         continue     else:         sum+x  enter the range of numbers u want to enter:3 enter a number:6 enter a number:6 enter a number:1 sum= 15  #Write a Program that keeps reading numbers from the user and terminates when it computes sum #wf 5 odd numbers sum=0  count=0 while True:
In [8]:	num = int(input("Enter a number: ")) org, sum=num, 0 while num > 0:     digit = num % 10     sum += digit ** 3     num //= 10     sum += digit ** 3     num //= 10 else:     print(org, "is an Armstrong number") #end  Enter a number: 153 153 is an Armstrong number  #program to read "n" numbers from the user and computes the sum of numbe rs that are divisible by 3 n=int(input("enter the range of numbers u want to enter:")) sum=0 for i in range(1,n+1):     x=int(input("enter a number:"))     if x%1=0:         continue     else:         sum+x  enter the range of numbers u want to enter:3 enter a number:1 sum= 15  #Write a Program that keeps reading numbers from the user and terminates when it computes sum #of 5 odd numbers sum=0  count=0 while True:     x=int(input("Enter a number:"))     if x%2=0:         continue else:
In [8]:	num = int(input("Enter a number: "))  while num > 0:
In [8]:	num = int(input("Enter a number: "))  org, sum-num, e  while num > 0:  digut = num % 10  sum += digit ** 3  num //= 10  #end of while  if org = sum:     print(org, "is not an Armstrong number")  else:     print(org, "is not an Armstrong number")  #end  Enter a number: 153  153 is an Armstrong number  #program to read "n" numbers from the user and computes the sum of number s that are divisible by 3  n=int(input("enter the range of numbers u want to enter:"))  for i in range(i,n+1):     x=int(input("enter a number:"))     if x%3:=0:         continue  else:     sum*=x  enter the range of numbers u want to enter:3  enter a number:5  enter a number:6  enter a number:9  enter a number:9  enter a number:9  count=0  while True:     x=int(input("Enter a number:"))  if x%2==0:     continue  else:     sum*=x     count+=1     if count==5:         break  Enter a number:5  Enter a number:6  enter a number:6  enter a number:6  enter a number:7  enter a number:8  enter a number:8  enter a number:9  ent
In [8]:	num = int(input("Enter a number: ")) org,sum=num,0 while num > 0: digit = num % 10 sum += digit ** 3 num //* 10 #end of while if org = sum:     print(org, "is an Armstrong number") else:     print(org, "is not an Armstrong number") #end  Enter a number: 153 153 is an Armstrong number #program to read "n" numbers from the user and computes the sum of number st that are divisible by 3 n=int(input("enter the range of numbers u want to enter:")) sum=0 for i in range(1,n+1):     x=int(input("enter a number:"))     if x%3!=0:         continue     else:         sum+x  cnter the range of numbers u want to enter:3 enter a number:6 enter a number:1  #Write a Program that keeps reading numbers from the user and terminates whon it computes sum # of 5 odd numbers sum=0  count=0  while True:     x=int(input("Enter a number:"))     if x%2==0:         continue else:         sum+x         count+=1         if count==5:             break  Enter a number:3 Enter a number:4 Enter a number:5 Enter a number:6 Enter a number:6 Enter a number:7 Enter a number:8 Enter a number:8 Enter a number:9 Enter a number:9 Enter a number:9 Enter a number:8 Enter a number:9 Enter a number:8 Enter a number:9  ###################################
In [8]:	num = int(input("Enter a number: ")) org.sum=num,0 while num > 0: digit = num % 10 sum = digit " 3 sent of while if org == sum: print(org,"is and Armstrong number") else: print(org,"is not an Armstrong number") eclse: print(org,"is not an Armstrong number") eclse: print(org,"is not an Armstrong number") eclse: sum = recommender: 152 153 is an Armstrong number  properture to read ""," numbers from the user and computes the sum of number so state are divisible by 3 n=int(input("enter the range of numbers u want to enter:")) if xx31=0: continue else: sum=x enter a number: enter a number: sum=15  while True: x=int(input("Enter a number:")) if x½==0: continue else: sum=x count=0 while True: x=int(input("Enter a number:")) if x½==0: continue else: sum=x count=1 if count==5: break  Enter a number: Enter a number: Enter a number: Enter a number: Sum=10  #Write a Program to calculate the sum of 18 numbers read from the user. If the user enters a mogative number: 2 enter a number: Enter a number: Sum= 19  #Write a Program to calculate the sum of 18 numbers read from the user. If the user enters a mogative number: sum=x enter a number: Sum= 19  #Write a Program to calculate the sum of 18 numbers read from the user. If the user enters a mogative number: sum=x enter a number: enter a number: enter a number: sum=x enter a number:
In [8]: In [10]:	<pre>num = int(input("Enter a number: ")) org.sum=num = 8:</pre>
In [8]: In [10]: In [12]:	num = int(input("Enter a number: ")) while num > 0 while num > 0 while num > 0 sun = validit ' 3 sun //= 10 sun = validit ' 3 sun //= 10 sun = validit ' 3 sun //= 10 set of while if org = sun: print(org, "is not an Armstrong number") set sun = validit ' 3 sun //= 10 sun = validit ' 3 sun //= 10 s
In [10]: In [12]:	num = int(ainput("Enter a number: "))  while num > 0  shear of while  for q = sum: print(org, "is not an Armstrong number")  else:  Enter a number: 133  san Armstrong number  print(org, "is not an Armstrong number")  sum-of number in numbers of numbers u want to enter:"))  sum-of number in number: ")  if xii=0:  continue  else  sum-x  count=0  while frue:  x=int(input("Enter a number:"))  if xii=2=0:  continue  else:  sum-x  count=1  if count=5:  break  Enter a number:3  Enter a number:3  Enter a number:4  Enter a number:3  Enter a number:5  Enter a number:5  Enter a number:5  Enter a number:6  Enter a number:6  Enter a number:6  Enter a number:7  Enter a number:8  Enter a number:9  Enter a number:0  enter a number:0
In [8]: In [10]: In [14]:	num = int(input("Enter a number:")) org; sum=num o while rum > 0; while rum > 0; while rum > 0; sum =
In [10]: In [14]: In [16]:	num : intiting ("inter a number: "))  which parament, and the parameter of
In [8]: In [10]: In [14]:	num = intitinuit("Enter a number: ")) white state = num is not sum = digit "s num // 15 num // 1
In [10]: In [14]: In [16]:	num = incl(ropuc("Protes a number: "))
In [10]: In [14]: In [16]:	man a sid (span("feater a number: "))  distant num of sid (span)  else oristicon/iss not an Arestrong number")  else oristicon/iss not an Arestrong number")  else oristicon/iss not an Arestrong number")  sid or a number: 100  200 18 Arestrong number  sid oristicon/iss not an Arestrong number")  sid oristicon/iss not an Arestrong number or sid (span)  for iss range(span);  sid (span) (span)  sid (span) (span) (span)  sid (
In [10]: In [14]: In [19]:	more a maliformin ("Enter a number:")  organization and a second property is a control of the second property is a control of the second property is a control of the second property is not an Americang number!)  else:  spring of notice and a second property is not an Americang number!  else:  spring of the mass is "number than the near and computes for sam of number and property is not an Americang number!)  else:  spring of the mass is "number than the near and computes for sam of number and the second property is not an americang in number and the second property is not an americang in number and the second property is not a maliformin ("Final or a number and to remeate a number and to remea
In [10]: In [14]: In [19]:	min = anticipacit (short is nother: "))  which man to or  dight = min t is not a Amazering mutber")  class or minor: 18
In [10]: In [10]: In [10]: In [20]:	must an influence ("Private a number")  which is man to a management of the private and a mana
In [10]: In [10]: In [10]: In [20]:	south and facilities of material southern's southern and so southern and so southern and so southern and southern's southern and southe
In [14]: In [16]: In [19]: In [20]:	and a control
In [14]: In [16]: In [19]: In [20]:	and a first count of a control
In [14]: In [16]: In [19]: In [20]:	must - territorial framers authors (19)  miles - territorial framers (19)  miles - territorial framers (19)  miles
In [12]: In [14]: In [16]: In [20]: In [20]:	SAME - STOCKET SERVEY AND
In [14]: In [16]: In [16]: In [20]: In [22]: In [23]:	Sign a standard of the content of th
In [14]: In [16]: In [16]: In [20]: In [22]: In [23]:	Some and control of the control of t

else:

Negative

Enter a number

def sum(a,b):
 return a+b

Enter a number:2

while n!=0:

gcd=m

GCD is 1

In [ ]:

m,n=n,m%n
#end of while

print("GCD is",gcd)

Enter first number

Enter second number

Enter another number:4 Sum of two numbers: 6

print("Negative")

In [29]: # Program to add two numbers using functions

x=int(input("Enter a number:"))
y=int(input("Enter another number:"))
s=sum(x,y)

print("Sum of two numbers:",s)

In [2]: m=int(input("Enter first number\n"))
 n=int(input("Enter second number\n"))

module1 programs

In [1]: #program to print 1st 10 numbers
for i in range(10):
 print(i)

0 1

6

8 9

In [3]: #program to add 2 numbers
 def add(x,y):
 sum=x+y
 return sum

enter 1st number:4
enter 2nd number:2
sum of 4 and 2 is: 6

**if** age>=18:

enter your age:20 eligible for voting:

result = num\*num\*3.14

Area of circle is: 113.04

# calculate the semi-perimeter

s = (a + b + c) / 2

# calculate the area

Enter second side: 8 Enter third side: 9

In [9]: #program to find best average marks

Enter radius: 6

import math

x=int(input("enter 1st number:"))
y=int(input("enter 2nd number:"))

In [4]: #program to determine the age for vote
 age=int(input("enter your age:"))

print("eligible for voting:")

In [5]: #Program to find the area of circle
print("Program to find the area of circle")
num = int(input("Enter radius: "))

print("Area of circle is: ",result)

Program to find the area of circle

In [8]: #Program to find the area of triangle using herons formula

# Three sides of the triangle is a, b and c:
a = float(input('Enter first side: '))
b = float(input('Enter second side: '))
c = float(input('Enter third side: '))

area = (math.sqrt(s\*(s-a)\*(s-b)\*(s-c)))
print('The area of the triangle is:',area)

print("enter 3 tests marks:")
num1=int(input("enter 1st test marks:"))
num2=int(input("enter 2nd test marks:"))
num3=int(input("enter 3rd test marks:"))

The area of the triangle is: 23.525252389719434

Program to find the area of triangle using herons formula Enter first side: 6

print("Program to find the area of triangle using herons formula")

print("not eligible for voting:")

print("the remaing years left to be eligible is:",n)

res=add(x,y)
print("sum of",x,"and",y,'is:',res)