*#Name:Pravalika Rao Chitneni  
#CompletionDate:11/11/2023 11.00AM  
  
  
#In this module we performed many string manipulation  
#It seems strings are immutable and so we need to create a new object for the String  
#We used here to find the Len:-It's inbuilt function which is used to calculate the lenth of the string and  
#And used dictonary to store the Key value pairs to we will get about the vowels are unique and we will get frequency of each vowel  
#vowelsWithCaps it's used for to convert the vowels from upper case to lower case  
#and here lower() it's inbuilt method in python and it will add the bit value of 32 if it's a upperCase*def stringManipulations(userInput):  
 strLen= len(userInput);  
 print("The string is {usrInput}".format(usrInput=strLen))  
 vowelsWithCaps = ['a','e','i','o','u','A','E','I','O','U']  
 vowels = ['a','e','i','o','u']  
 usrInput=userInput.casefold()  
 count={}.fromkeys(vowels,0)  
 vowelsCount=0  
 for i in range(strLen):  
 if usrInput[i] in vowels:  
 count[usrInput[i]]+=1  
 vowelsCount+=1  
 print("There are a total of",vowelsCount,"vowels")  
 for i in count.keys():  
 print(i,":",count.get(i))  
 print(count)  
 resultList=[]  
 usrInputList=userInput.split(" ")  
 for word in usrInputList:  
 resultStr=""  
 for i in word:  
 if i in vowelsWithCaps:  
 resultStr = resultStr+i.lower()  
 else:  
 resultStr = resultStr+i  
 resultList.append(resultStr)  
 modifiedString=" ".join(resultList)  
 print("The modified string is",modifiedString)  
  
  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 usrInput=input("Enter a string to process:")  
 print("You entered:",usrInput)  
 stringManipulations(usrInput)



A screenshot of a computer program

Description automatically generated

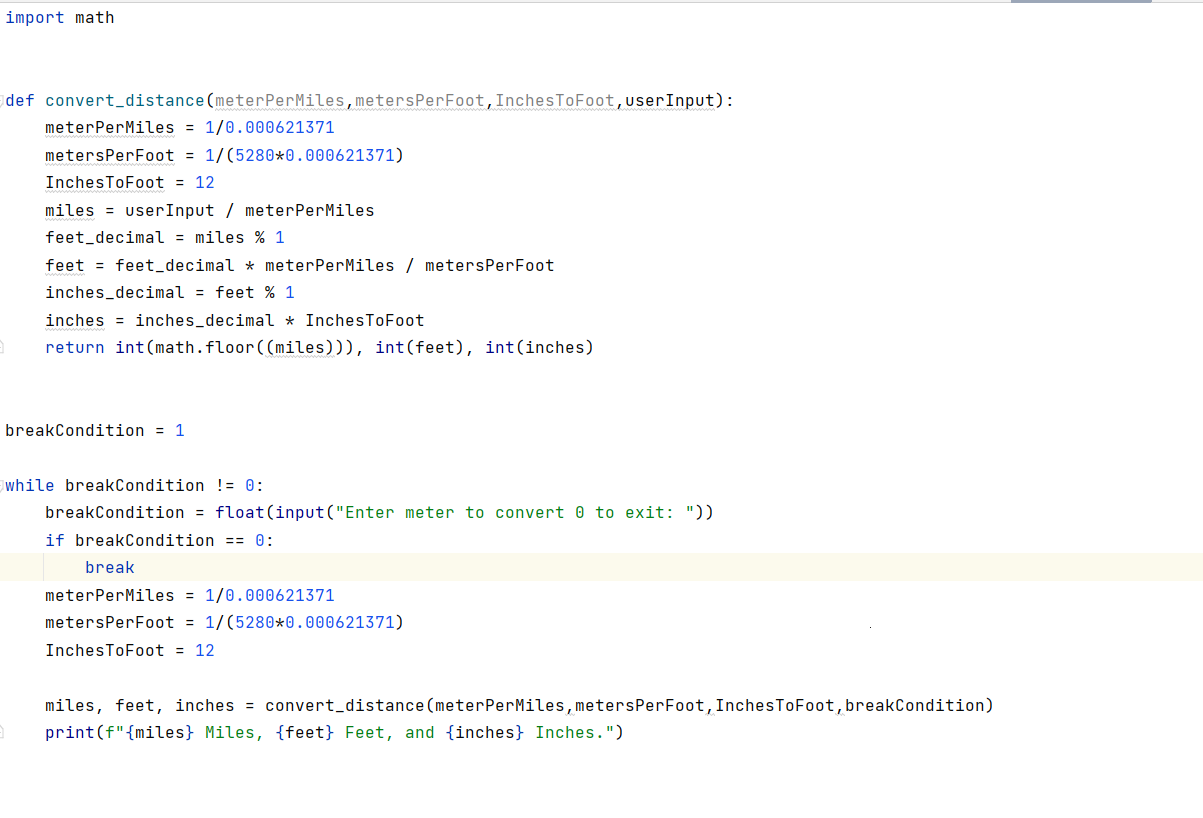
A screenshot of a computer program

Description automatically generated



A close-up of a computer screen

Description automatically generated



A computer screen shot of a number

Description automatically generated