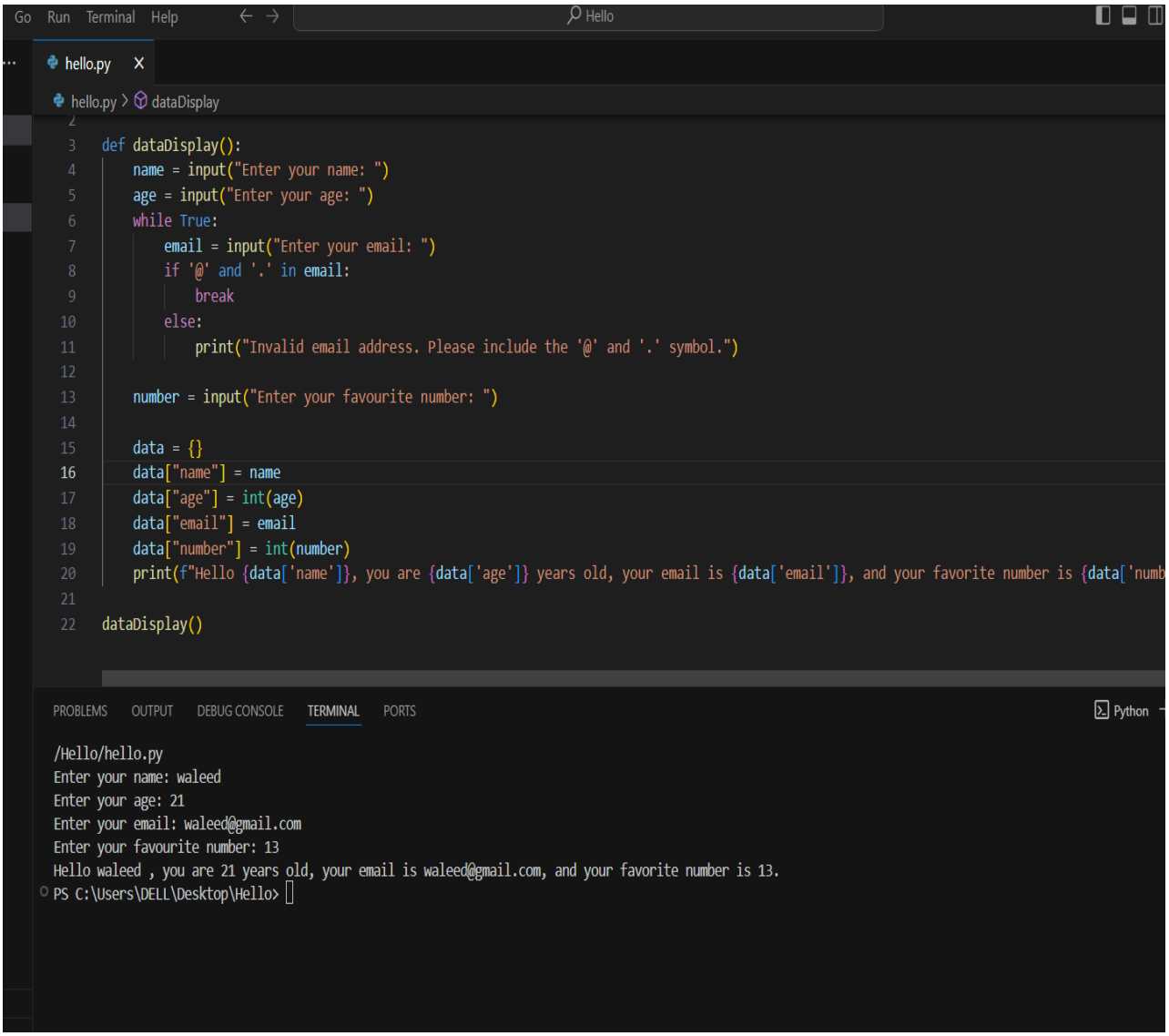
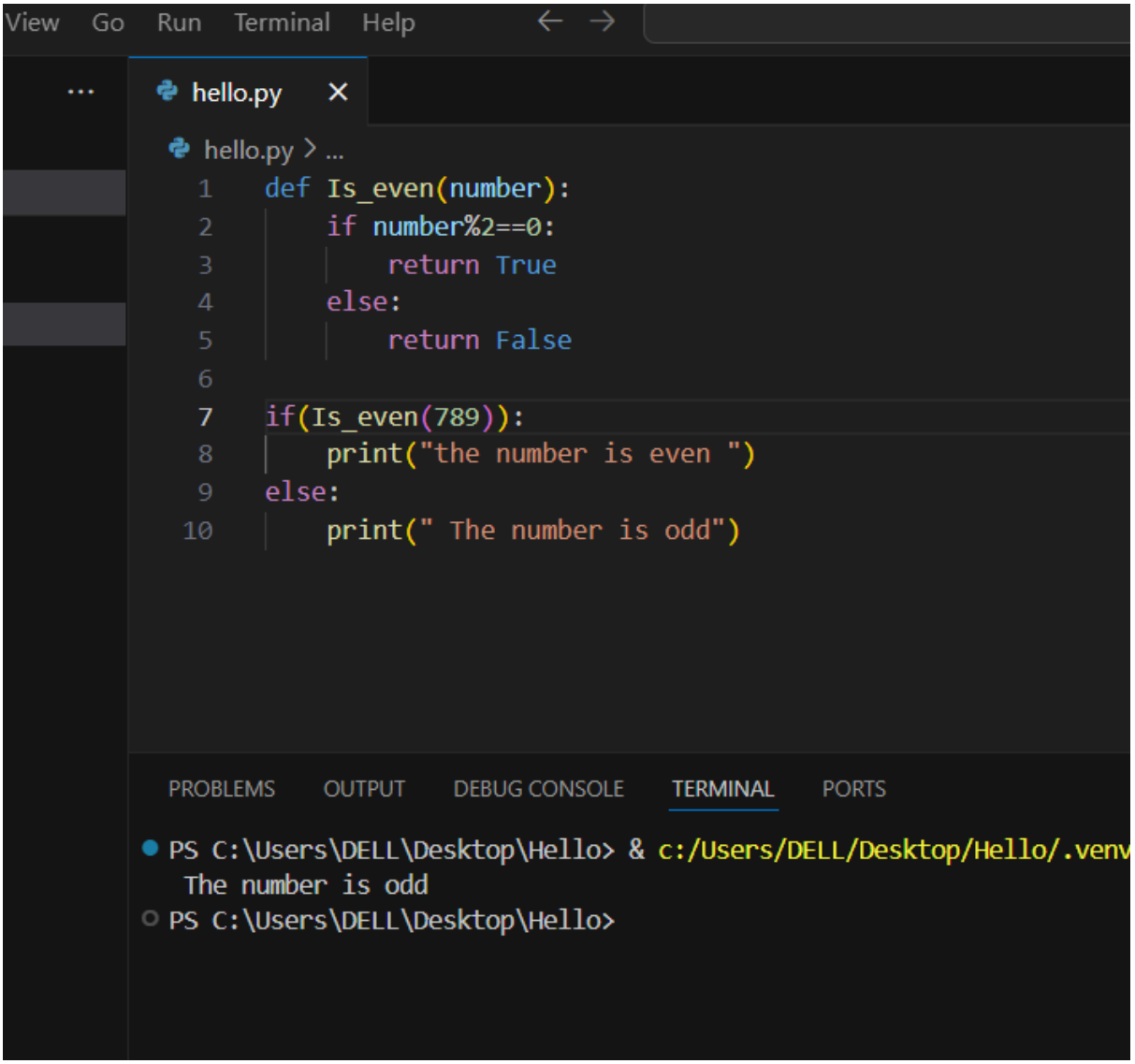
SCREENSHOTS OF THE OUTPUTS:

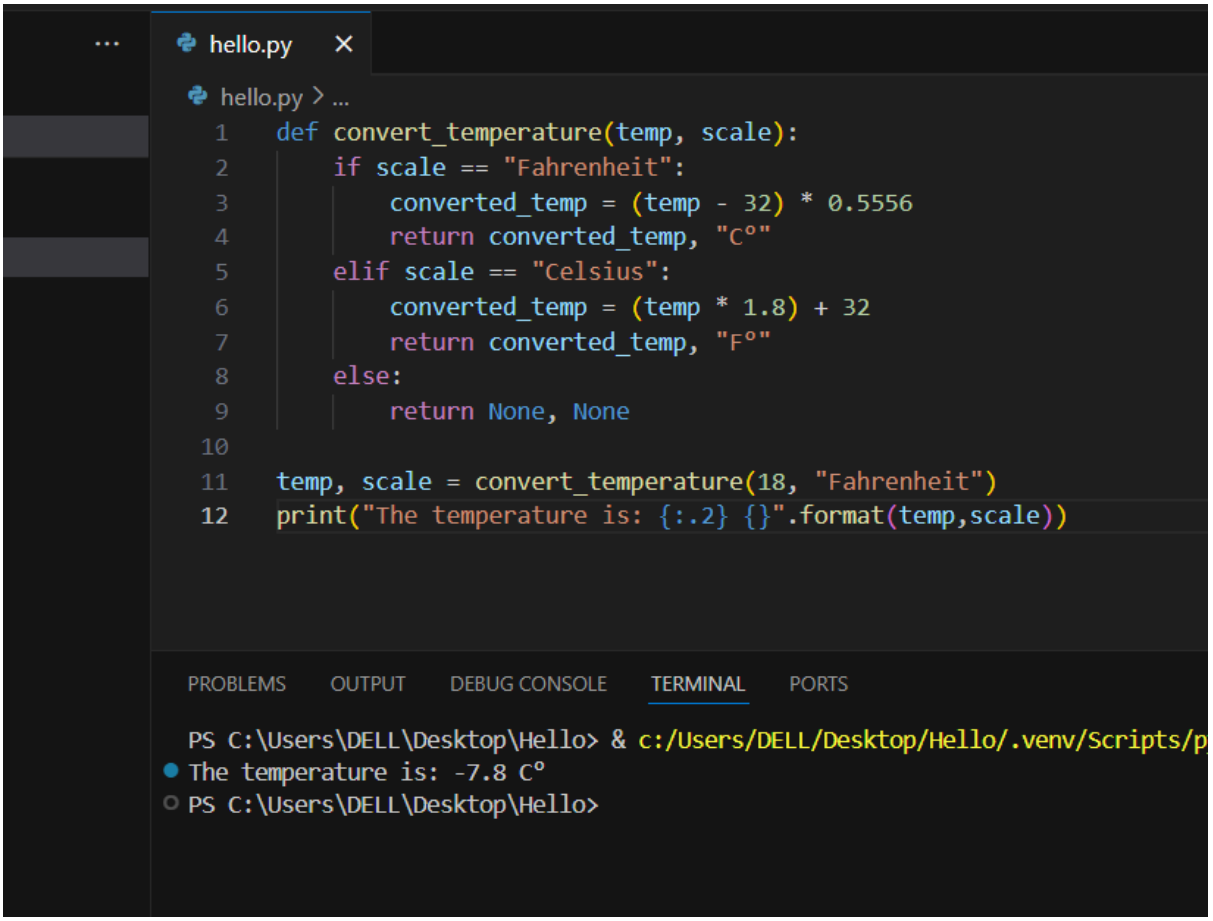
Q1:



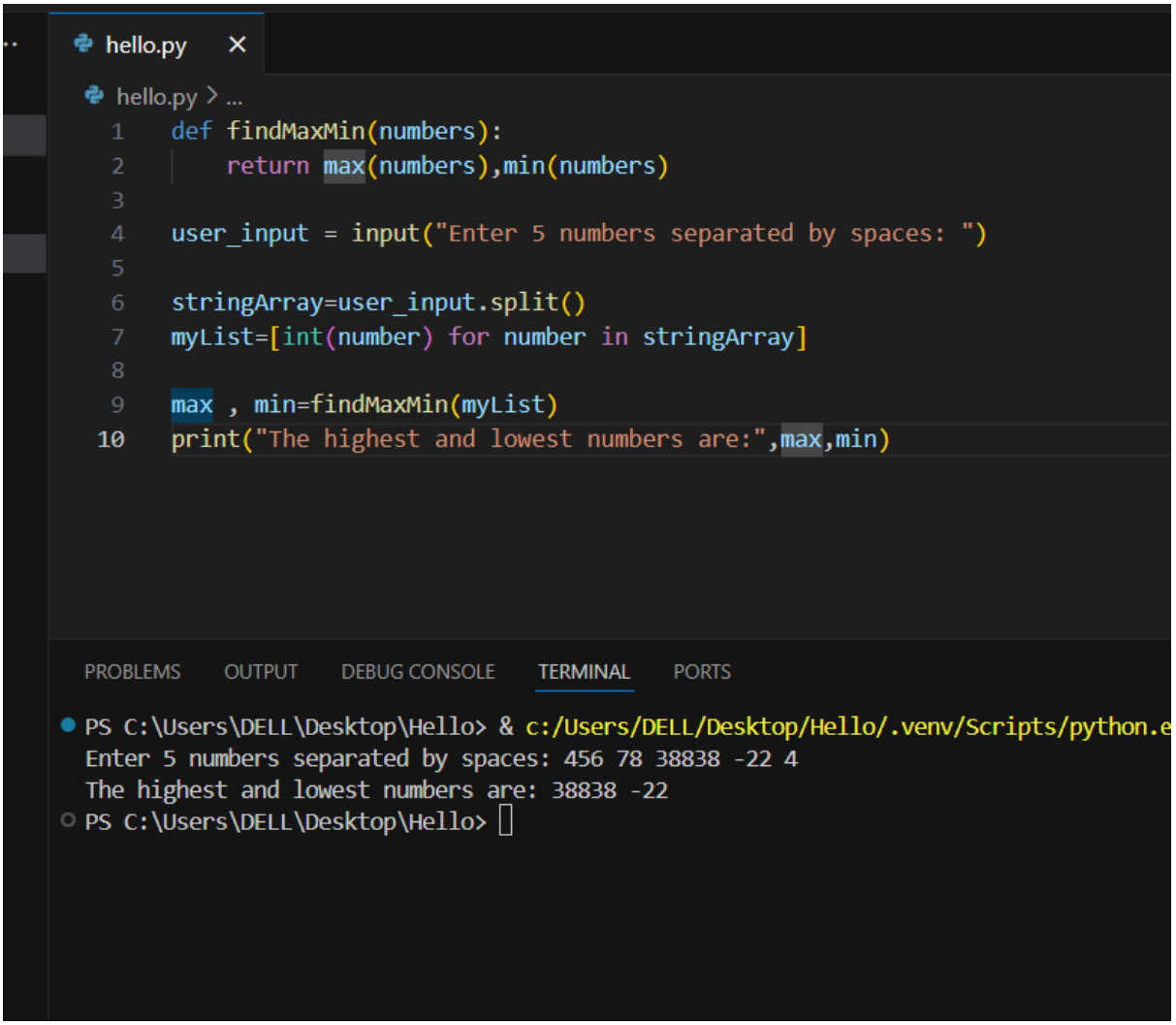
Q2:


View Go Run Terminal Help
hello.py
hello.py > ...
1 def Is_even(number):
2 if number%2==0:
3 return True
4 else:
5 return False
6
7 if(Is_even(789)):
8 print("the number is even ")
9 else:
10 print(" The number is odd")
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\DELL\Desktop\Hello> & c:/Users/DELL/Desktop/Hello/.venv
The number is odd
PS C:\Users\DELL\Desktop\Hello>

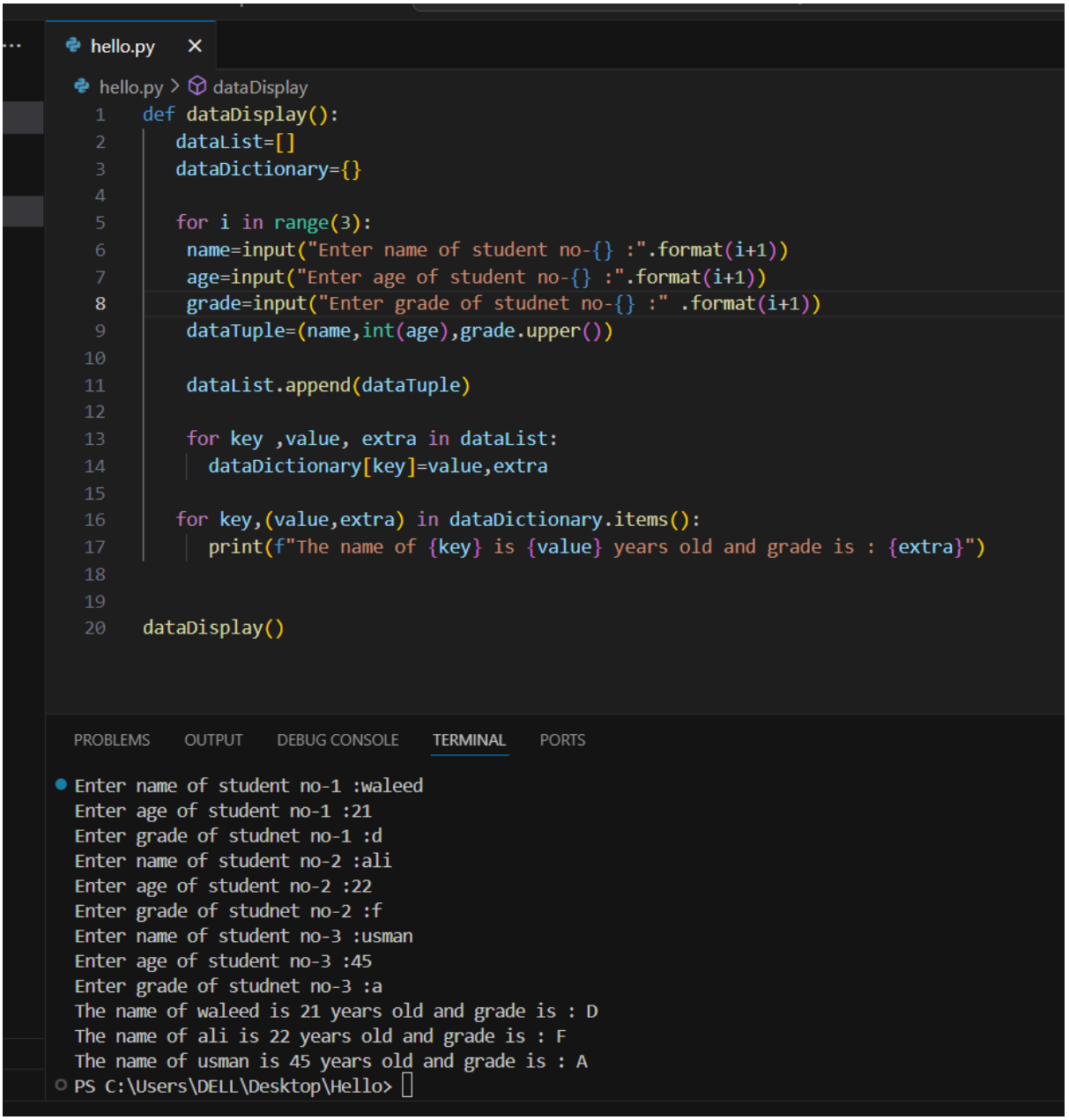
Q3:


hello.py
hello.py > ...
1 def convert_temperature(temp, scale):
2 if scale == "Fahrenheit":
3 converted_temp = (temp - 32) * 0.5556
4 return converted_temp, "C°"
5 elif scale == "Celsius":
6 converted_temp = (temp * 1.8) + 32
7 return converted_temp, "F°"
8 else:
9 return None, None
10
11 temp, scale = convert_temperature(18, "Fahrenheit")
12 print("The temperature is: {:.2} {}".format(temp,scale))
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\DELL\Desktop\Hello> & c:/Users/DELL/Desktop/Hello/.venv/Scripts/p
The temperature is: -7.8 C°
PS C:\Users\DELL\Desktop\Hello>

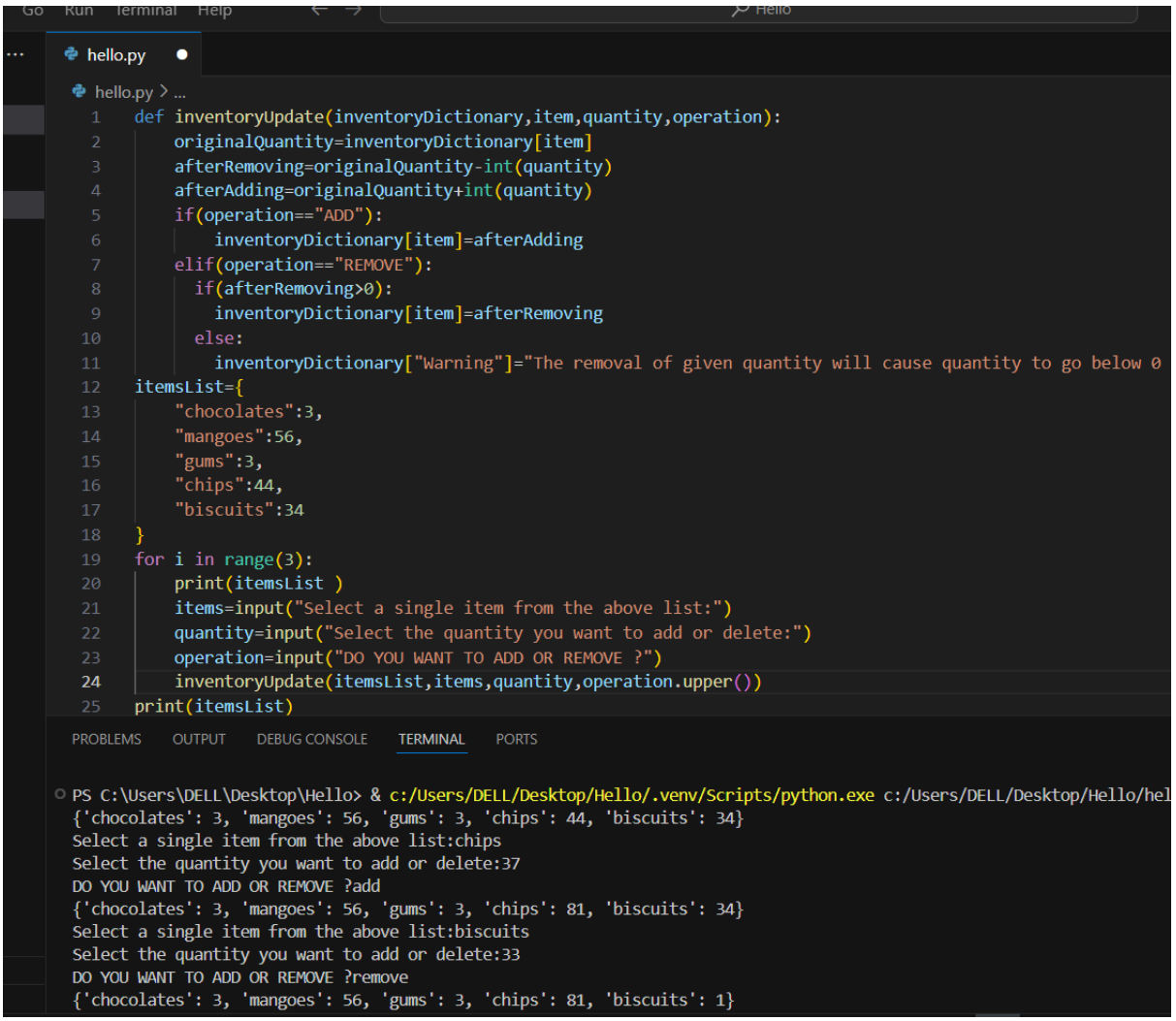
Q4:


hello.py
hello.py > ...
1 def findMaxMin(numbers):
2 return max(numbers),min(numbers)
3
4 user_input = input("Enter 5 numbers separated by spaces: ")
5
6 stringArray=user_input.split()
7 myList=[int(number) for number in stringArray]
8
9 max , min=findMaxMin(myList)
10 print("The highest and lowest numbers are:",max,min)
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\DELL\Desktop\Hello> & c:/Users/DELL/Desktop/Hello/.venv/Scripts/python.e
Enter 5 numbers separated by spaces: 456 78 38838 -22 4
The highest and lowest numbers are: 38838 -22
PS C:\Users\DELL\Desktop\Hello>

Q5:


hello.py
hello.py > dataDisplay
def dataDisplay():
dataList=[]
dataDictionary={}
for i in range(3):
name=input("Enter name of student no-{} :".format(i+1))
age=input("Enter age of student no-{} :".format(i+1))
grade=input("Enter grade of studnet no-{} :" .format(i+1))
dataTuple=(name,int(age),grade.upper())
dataList.append(dataTuple)
for key ,value, extra in dataList:
dataDictionary[key]=value,extra
for key,(value,extra) in dataDictionary.items():
print(f"The name of {key} is {value} years old and grade is : {extra}")
dataDisplay()
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Enter name of student no-1 :waleed
Enter age of student no-1 :21
Enter grade of studnet no-1 :d
Enter name of student no-2 :ali
Enter age of student no-2 :22
Enter grade of studnet no-2 :f
Enter name of student no-3 :usman
Enter age of student no-3 :45
Enter grade of studnet no-3 :a
The name of waleed is 21 years old and grade is : D
The name of ali is 22 years old and grade is : F
The name of usman is 45 years old and grade is : A
PS C:\Users\DELL\Desktop\Hello>

Q6:


Go Run Terminal Help
Hello
hello.py
hello.py > ...
def inventoryUpdate(inventoryDictionary,item,quantity,operation):
originalQuantity=inventoryDictionary[item]
afterRemoving=originalQuantity-int(quantity)
afterAdding=originalQuantity+int(quantity)
if(operation=="ADD"):
inventoryDictionary[item]=afterAdding
elif(operation=="REMOVE"):
if(afterRemoving>0):
inventoryDictionary[item]=afterRemoving
else:
inventoryDictionary["Warning"]="The removal of given quantity will cause quantity to go below 0
itemsList={
"chocolates":3,
"mangoes":56,
"gums":3,
"chips":44,
"biscuits":34
}
for i in range(3):
print(itemsList)
items=input("Select a single item from the above list:")
quantity=input("Select the quantity you want to add or delete:")
operation=input("DO YOU WANT TO ADD OR REMOVE ?")
inventoryUpdate(itemsList,items,quantity,operation.upper())
print(itemsList)
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\DELL\Desktop\Hello> & c:/Users/DELL/Desktop/Hello/.venv/Scripts/python.exe c:/Users/DELL/Desktop/Hello/hel
{'chocolates': 3, 'mangoes': 56, 'gums': 3, 'chips': 44, 'biscuits': 34}
Select a single item from the above list:chips
Select the quantity you want to add or delete:37
DO YOU WANT TO ADD OR REMOVE ?add
{'chocolates': 3, 'mangoes': 56, 'gums': 3, 'chips': 81, 'biscuits': 34}
Select a single item from the above list:biscuits
Select the quantity you want to add or delete:33
DO YOU WANT TO ADD OR REMOVE ?remove
{'chocolates': 3, 'mangoes': 56, 'gums': 3, 'chips': 81, 'biscuits': 1}