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Roll: 546

Div: E-3

Sub: EDS

Assignment 1

FY Btech 2022-23

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import csv

f1 = open("D:\python progs\Assigment 1\stud_info.csv", "r")
info_dataset = []
while True:
    data = f1.readline()
    if data:
        info_dataset.append(data.replace("\n", "").split(","))
    else:
        break

RollNo = []
Name = []
Gender = []
DOB = []
for row in info_dataset[1:]:
    RollNo.append(row[0])
    Name.append(row[1])
    Gender.append(row[2])
    DOB.append(row[3])

f2 = open("D:\python progs\Assigment 1\stud_placement.csv", "r")
placement_dataset = []
while True:
    data1 = f2.readline()
    if data1:
        placement_dataset.append(data1.replace("\n", "").split(","))
    else:
        break

Company = []
Jobrole = []
Package = []
for row in placement_dataset[1:]:
    Company.append(row[1])
    Jobrole.append(row[2])
    Package.append(row[3])

f3 = open("D:\python progs\Assigment 1\student_marks.csv", "r")
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marks_dataset = []
while True:
    data2 = f3.readline()
    if data2:
        marks_dataset.append(data2.replace("\n", "").split(","))
    else:
        break
#marks_dataset=list(map(float,marks_dataset))

Maths = []
Physics = []
Chemistry = []
Total = []
Percentage = []
for row in marks_dataset[1:]:
    Maths.append(row[1])
    Physics.append(row[2])
    Chemistry.append(row[3])
    Total.append(row[4])
    Percentage.append(row[5])
Package=list(map(float, Package))
print(marks_dataset)

student_details = []
for i in range(len(marks_dataset)):
    student_details.append(info_dataset[i] + marks_dataset[i] +
placement_dataset[i])

fw = open("All_Student_Details.csv", "w")
data_to_write = []
for i in range(len(student_details)):
    row = list()
    for j in range(len(student_details[i])):
        data = student_details[i][j]
        row.append(data)
    row.append('\n')
    data_to_write.append(",".join(row))

for data in data_to_write:
    fw.write(data)
print("\nHow many time TCS Repeated")

countTCS=Company.count("TCS")
print("\n",countTCS,"Times \n")

for i in range(len(Percentage)-1):
    print(i+1,Name[i],Total[i]+" Marks")

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print("\n")

for i in range(len(Percentage)-1):
    print(i+1,Name[i],"\t",Percentage[i]+"%")
print("\n")

b=Chemistry.index(max(Chemistry))
print("Name :",Name[b])
print("Maximum Chemistry :",max(Chemistry),"Marks")


_sum2=0
for i in range(len(marks_dataset)-1):
    u=float(Percentage[i])
    _sum2=_sum2+u
print("Average Percentage(%) :",round(_sum2/10,2),"%",)


for i in range(len(student_details)-1):
    print(i+1,"",Name[i])
    print("package :",Package[i])
    print("Company :",Company[i])
    print("Job Role :",Jobrole[i],"\n\n")

print("\n\nHighest Package\n")


c=Package.index(max(Package))
print("Name :",Name[c])
print("Maximum Package :",max(Package),"LPC")

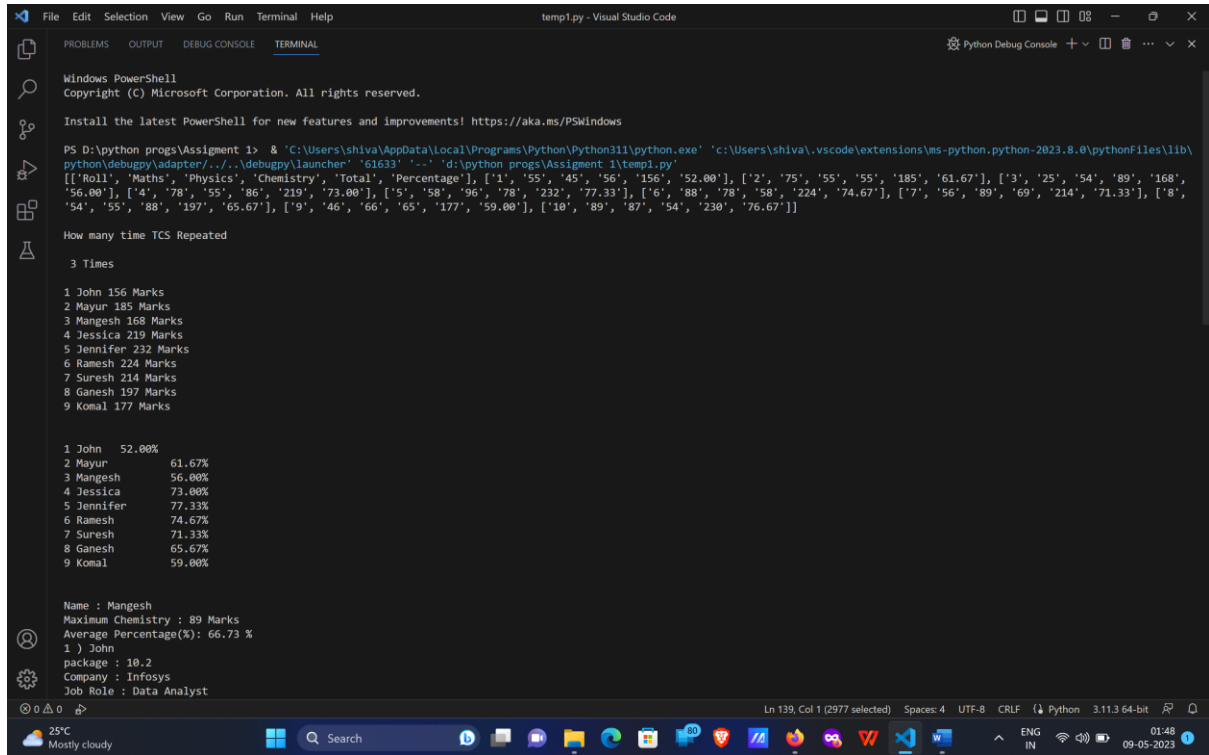

b=Package.index(min(Package))
print("Name :",Name[b])
print("Minimum Package :",min(Package),"LPC")


fw.close()
f1.close()

```

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f2.close()
f3.close()
```

## Screenshots of output:



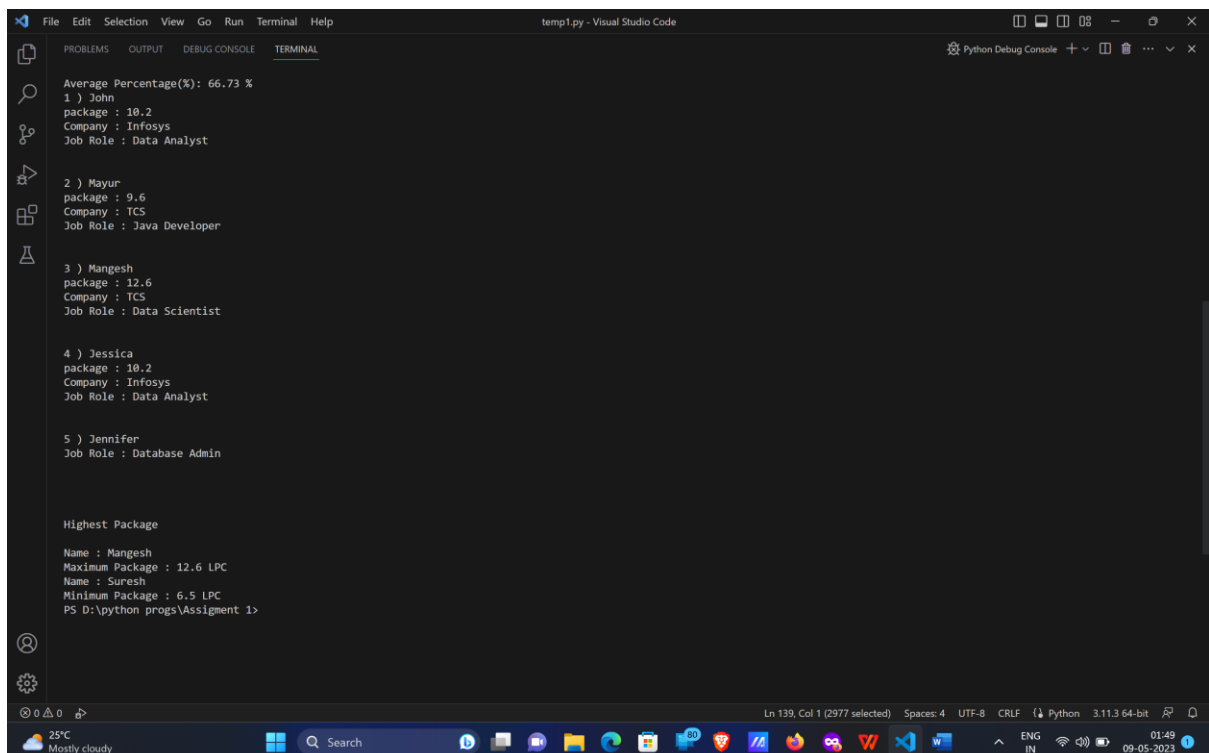
```
PS D:\python progs\Assignment 1> & 'C:\Users\shiva\AppData\Local\Programs\Python\Python311\python.exe' 'c:\Users\shiva\.vscode\extensions\ms-python.python-2023.8.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '61633' '-...' 'd:\python progs\Assignment 1\temp1.py'
[[['Roll', 'Maths', 'Physics', 'Chemistry', 'Total', 'Percentage'], ['1', '55', '45', '56', '156', '52.00'], ['2', '75', '55', '55', '185', '61.67'], ['3', '25', '54', '89', '168', '56.00'], ['4', '78', '55', '86', '219', '73.00'], ['5', '58', '96', '78', '232', '77.33'], ['6', '88', '78', '58', '224', '74.67'], ['7', '56', '89', '69', '214', '71.33'], ['8', '54', '55', '88', '197', '65.67'], ['9', '46', '66', '65', '177', '59.00'], ['10', '89', '87', '54', '230', '76.67']]

How many time TCS Repeated
3 Times

1 John 156 Marks
2 Mayur 185 Marks
3 Mangesh 168 Marks
4 Jessica 219 Marks
5 Jennifer 232 Marks
6 Ramesh 224 Marks
7 Suresh 214 Marks
8 Ganesh 197 Marks
9 Komal 177 Marks

1 John 52.00%
2 Mayur 61.67%
3 Mangesh 56.00%
4 Jessica 73.00%
5 Jennifer 77.33%
6 Ramesh 74.67%
7 Suresh 71.33%
8 Ganesh 65.67%
9 Komal 59.00%

Name : Mangesh
Maximum Chemistry : 89 Marks
Average Percentage(%): 66.73 %
1 ) John
package : 10.2
Company : Infosys
Job Role : Data Analyst
```



```
Average Percentage(%): 66.73 %
1 ) John
package : 10.2
Company : Infosys
Job Role : Data Analyst

2 ) Mayur
package : 9.6
Company : TCS
Job Role : Java Developer

3 ) Mangesh
package : 12.6
Company : TCS
Job Role : Data Scientist

4 ) Jessica
package : 10.2
Company : Infosys
Job Role : Data Analyst

5 ) Jennifer
Job Role : Database Admin

Highest Package
Name : Mangesh
Maximum Package : 12.6 LPC
Name : Suresh
Minimum Package : 6.5 LPC
PS D:\python progs\Assignment 1>
```