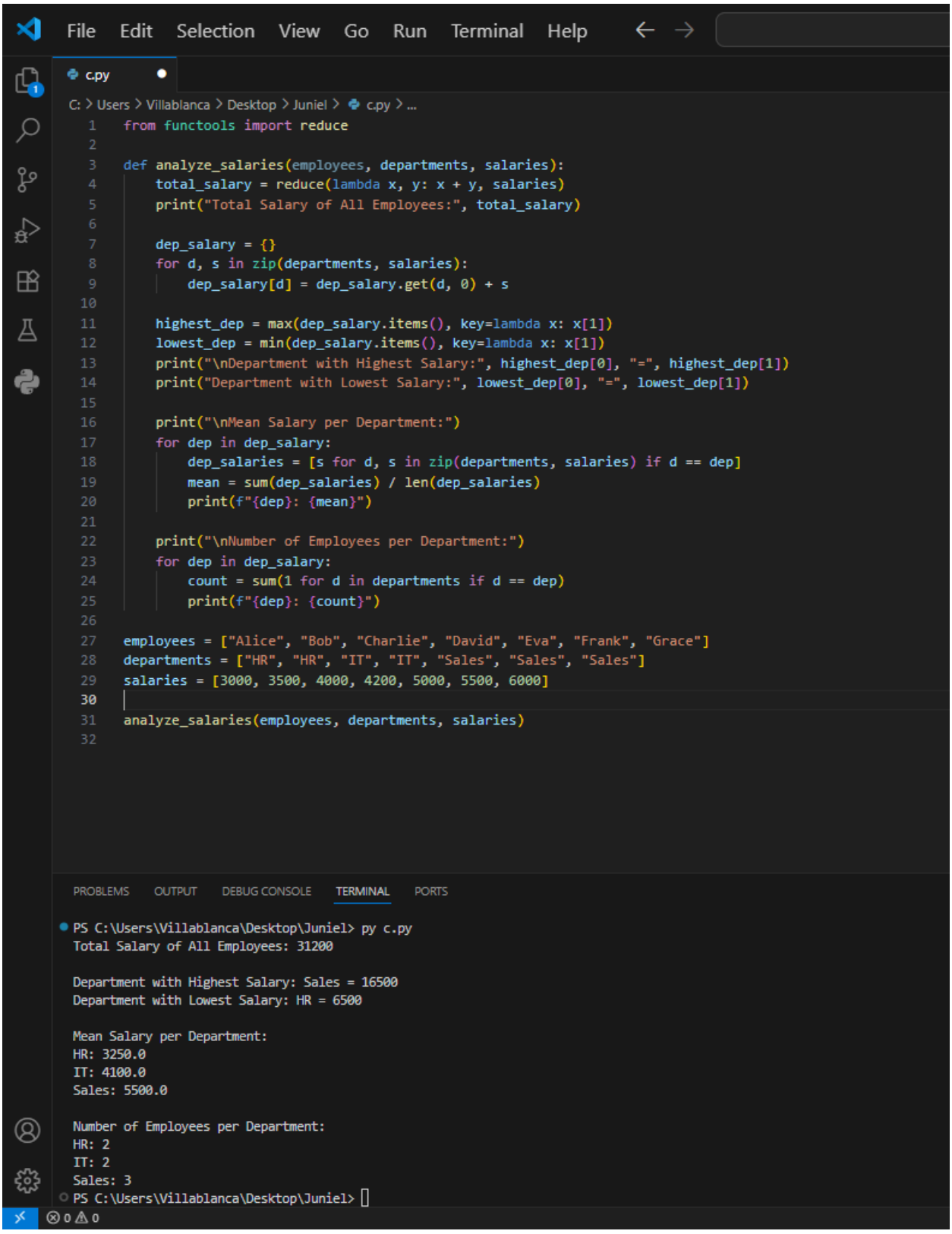
```
from functools import reduce
def analyze_salaries(employees, departments, salaries):
    total_salary = reduce(lambda x, y: x + y, salaries)
    print("Total Salary of All Employees:", total_salary)

    dep_salary = {}
    for d, s in zip(departments, salaries):
        dep_salary[d] = dep_salary.get(d, 0) + s

    highest_dep = max(dep_salary.items(), key=lambda x: x[1])
    lowest_dep = min(dep_salary.items(), key=lambda x: x[1])
    print("\nDepartment with Highest Salary:", highest_dep[0], "=", highest_dep[1])
    print("Department with Lowest Salary:", lowest_dep[0], "=", lowest_dep[1])

    print("\nMean Salary per Department:")
    for dep in dep_salary:
        dep_salaries = [s for d, s in zip(departments, salaries) if d == dep]
        mean = sum(dep_salaries) / len(dep_salaries)
        print(f"{dep}: {mean}")

    print("\nNumber of Employees per Department:")
    for dep in dep_salary:
        count = sum(1 for d in departments if d == dep)
        print(f"{dep}: {count}")

employees = ["Alice", "Bob", "Charlie", "David", "Eva", "Frank", "Grace"]
departments = ["HR", "HR", "IT", "IT", "Sales", "Sales", "Sales"]
salaries = [3000, 3500, 4000, 4200, 5000, 5500, 6000]

analyze_salaries(employees, departments, salaries)
```


File Edit Selection View Go Run Terminal Help
c.py
C: > Users > Villablanca > Desktop > Juniel > c.py > ...
1 from functools import reduce
2
3 def analyze_salaries(employees, departments, salaries):
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9 dep_salary[d] = dep_salary.get(d, 0) + s
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11 highest_dep = max(dep_salary.items(), key=lambda x: x[1])
12 lowest_dep = min(dep_salary.items(), key=lambda x: x[1])
13 print("\nDepartment with Highest Salary:", highest_dep[0], "=", highest_dep[1])
14 print("Department with Lowest Salary:", lowest_dep[0], "=", lowest_dep[1])
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16 print("\nMean Salary per Department:")
17 for dep in dep_salary:
18 dep_salaries = [s for d, s in zip(departments, salaries) if d == dep]
19 mean = sum(dep_salaries) / len(dep_salaries)
20 print(f"{dep}: {mean}")
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22 print("\nNumber of Employees per Department:")
23 for dep in dep_salary:
24 count = sum(1 for d in departments if d == dep)
25 print(f"{dep}: {count}")
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27 employees = ["Alice", "Bob", "Charlie", "David", "Eva", "Frank", "Grace"]
28 departments = ["HR", "HR", "IT", "IT", "Sales", "Sales", "Sales"]
29 salaries = [3000, 3500, 4000, 4200, 5000, 5500, 6000]
30
31 analyze_salaries(employees, departments, salaries)
32
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Villablanca\Desktop\Juniel> py c.py
Total Salary of All Employees: 31200
Department with Highest Salary: Sales = 16500
Department with Lowest Salary: HR = 6500
Mean Salary per Department:
HR: 3250.0
IT: 4100.0
Sales: 5500.0
Number of Employees per Department:
HR: 2
IT: 2
Sales: 3
PS C:\Users\Villablanca\Desktop\Juniel>
0 0