

```
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)
```

The screenshot shows a code editor interface with a dark theme. On the left is a sidebar with various icons for file operations like copy, paste, search, and refresh. The main area displays a Python script named `c.py`. The code uses `functools.reduce` to calculate total salaries and `zip` to iterate over departments and salaries. It then calculates department-wise totals, means, and counts. Finally, it prints out the results for each department.

```
C: > Users > Villablanca > Desktop > Juniel > c.py > ...
1  from functools import reduce
2
3  def analyze_salaries(employees, departments, salaries):
4      total_salary = reduce(lambda x, y: x + y, salaries)
5      print("Total Salary of All Employees:", total_salary)
6
7      dep_salary = {}
8      for d, s in zip(departments, salaries):
9          dep_salary[d] = dep_salary.get(d, 0) + s
10
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])
15
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}")
21
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}")
26
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)
```

The terminal tab at the bottom shows the execution of the script and its output:

```
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> []
```