```
# Dictionary-Assignment
# 1. Access the Name and Position of Employee with ID 103.
# Given the employee dictionary: # Task: Retrieve the name and position of the employee with ID
103.
employees = {
    101: {"name": "John Doe", "position": "Software Engineer", "salary": 80000},
    102: {"name": "Jane Smith", "position": "Product Manager", "salary": 95000},
    103: {"name": "Sam Brown", "position": "Data Scientist", "salary": 90000}
}
print(employees[103]['name'],employees[103]['position'])
output:-
    PS C:\Lavanya_Code\Pyton_Lectures> python Dictionary_assignment.py
Sam Brown Data Scientist
    PS C:\Lavanya_Code\Pyton_Lectures> ^C
```

```
# 2. Check if an Employee with ID 106 Exists. If Not, Print "Employee not found."

# Given dictionary

employees = {

101: {"name": "John Doe", "position": "Software Engineer", "salary": 80000},

102: {"name": "Jane Smith", "position": "Product Manager", "salary": 95000},

103: {"name": "Sam Brown", "position": "Data Scientist", "salary": 90000}

if employees.get(106)==None:

print("Employee not found")
```

Output:-

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE <u>TERMINAL</u> PORTS

PS C:\Lavanya_Code\Pyton_Lectures> python Dictionary_assignment.py
Employee not found
```

#3

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# 3. Update the Salary of Employee 101 to 85000.

# Task: Update the salary of employee 101 to 85000.

# Given dictionary
employees = {
    101: {"name": "John Doe", "position": "Software Engineer", "salary": 80000},
    102: {"name": "Jane Smith", "position": "Product Manager", "salary": 95000},
    103: {"name": "Sam Brown", "position": "Data Scientist", "salary": 90000}
} employees[101]['salary']=85000
print(employees[101])
```

output :-

```
PS C:\Lavanya_Code\Pyton_Lectures> python Dictionary_assignment.py
{'name': 'John Doe', 'position': 'Software Engineer', 'salary': 85000}
PS C:\Lavanya_Code\Pyton_Lectures>
```

```
# 6. Retrieve All the Names of Employees Using keys().

# Given dictionary

employees = {

101: {"name": "John Doe", "position": "Software Engineer", "salary": 80000},

102: {"name": "Jane Smith", "position": "Product Manager", "salary": 95000},

103: {"name": "Sam Brown", "position": "Data Scientist", "salary": 90000}

}

print(employees.keys())

# 7. Get All the Positions of Employees Using values().

CE\Lavanya_Code\Pyton_Lectures> python Dictionary_assignment.py

ct_keys([101, 102, 103])

C:\Lavanya_Code\Pyton_Lectures>
```

```
# 7. Get All the Positions of Employees Using values().

# Given dictionary

# employees = {

# 101: {"name": "John Doe", "position": "Software Engineer", "salary": 80000},

# 102: {"name": "Jane Smith", "position": "Product Manager", "salary": 95000},

# 103: {"name": "Sam Brown", "position": "Data Scientist", "salary": 90000}

# PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

# PS C:\Lavanya Code\Pyton_Lectures> python Dictionary_assignment.py

# PS C:\Lavanya Code\Pyton_Lectures> | PS C:\Lavanya Code\Pyton_Lectu
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134
      # 10. Check if Any Employee Has a Position "Software Engineer". If So, Print Their Name.
135
136
      # Given dictionary
137
138
      employees = {
          101: {"name": "John Doe", "position": "Software Engineer", "salary": 80000},
139
          102: {"name": "Jane Smith", "position": "Product Manager", "salary": 95000},
140
          103: {"name": "Sam Brown", "position": "Data Scientist", "salary": 90000}
141
142
143
      if employees[101]['position']=="Software Engineer":
144
          print(employees[101]['name'])
      elif employees[102]['position']=="Software Engineer":
146
          print(employees[102]['name'])
147
      elif employees[103]['position']=="Software Engineer":
148
149
          print(employees[103]['name'])
150
PROBLEMS 1
             OUTPUT
                      DEBUG CONSOLE
                                     TERMINAL
                                               PORTS
PS C:\Lavanya Code\Pyton Lectures> python Dictionary assignment.py
John Doe
PS C:\Lavanya Code\Pyton Lectures>
```

```
171
      # 11. Using if elif else, Print a Message About an Employee's Salary Range:
173
      # - If salary is more than 90,000, print "High Salary."
      # - If salary is between 75,000 and 90,000, print "Medium Salary."
175
      # - If salary is less than 75,000, print "Low Salary."
176
      # Task: For each employee, use if elif else to print the salary range.
177
      # Given dictionary
178
      employees = {
179
          101: {"name": "John Doe", "position": "Software Engineer", "salary": 80000},
          102: {"name": "Jane Smith", "position": "Product Manager", "salary": 95000},
          103: {"name": "Sam Brown", "position": "Data Scientist", "salary": 90000}
      if employees[101]['salary']>90000:
          print(employees[101]['name'], 'Higher Salary')
      elif employees[101]['salary']>75000 and employees[101]['salary']<=90000:
           print(employees[101]['name'], 'Medium Salary')
      elif employees[101]['salary']<75000:
          print(employees[101]['name'], 'Low Salary')
      if employees[102]['salary']>90000:
          print(employees[102]['name'], 'Higher Salary')
      elif employees[102]['salary']>75000 and employees[102]['salary']<=90000:</pre>
           print(employees[102]['name'], 'Medium Salary')
      elif employees[102]['salary']<75000:
195
          print(employees[102]['name'], 'Low Salary')
      if employees[103]['salary']>90000:
          print(employees[103]['name'], 'Higher Salary')
      elif employees[103]['salary']>75000 and employees[103]['salary']<=90000:
           print(employees[103]['name'], 'Medium Salary')
      elif employees[103]['salary']<75000:
          print(employees[103]['name'], 'Low Salary')
PROBLEMS 1
             OUTPUT
                     DEBUG CONSOLE
                                    TERMINAL
PS C:\Lavanya_Code\Pyton_Lectures> python Dictionary_assignment.py
John Doe Medium Salary
Jane Smith Higher Salary
Sam Brown Medium Salary
PS C:\Lavanya_Code\Pyton_Lectures>
```

```
| PROBLEMS | Output | DEBUGCOMSCALE | TERMINAL | PORTS | PROBLEMS | Output | DEBUGCOMSCALE | TERMINAL | PORTS | PROBLEMS | Output | DEBUGCOMSCALE | TERMINAL | PORTS | PROBLEMS | Output | DEBUGCOMSCALE | TERMINAL | PORTS | PROBLEMS | Output | DEBUGCOMSCALE | TERMINAL | PORTS | Product Manager', 'salary': 13ane Smith', 'position': 'Software Engineer', 'salary': 13ane Smith', 'position': 'Warketing Director', 'salary': 136000) | Terminal | Output | DEBUGCOMSCALE | TERMINAL | PORTS | Product Manager', 'salary': 13ane Smith', 'position': 'Product Manager', 'salary': 13ane Smith', 'position': 'Product Manager', 'salary': 99900) | Terminal | Product Manager', 'salary': 13ane Smith', 'position': 'Product Manager', 'salary': 99900 | PS G:\Lavanya_Code\Pyton_Lectures> | Output | DEBUGCOMSCALE | TERMINAL | PORTS | Product Manager', 'salary': 99900 | Terminal | Product Manager', 'salary': 99900 | Terminal | Product Manager', 'salary': 99900 | Terminal | Product Manager', 'salary': 99900 | PS G:\Lavanya_Code\Pyton_Lectures> | Output | DEBUGCOMSCALE | Product Manager', 'salary': 99900 | PS G:\Lavanya_Code\Pyton_Lectures> | Output | DEBUGCOMSCALE | PRODUCT | PROD
```