

**VIDHI ROHIRA**  
**SY BTECH**  
**COMPUTER ENGINEERING**  
**DAA LAB 1 OUTPUTS**  
**231071052**

# OUTPUTS:-

## TEST CASE 1:-

```
3
4  data = {
5      'Employee_ID': [1, 2, 3, 4, 5],
6      'Basic_Salary': [30000, 35000, 40000, 45000, 50000],
7      'HRA': [5000, 6000, 7000, 8000, 9000],
8      'Other_Allowances': [2000, 2500, 3000, 3500, 4000],
9      'Income_Tax': [2000, 2500, 3000, 3500, 4000],
10     'Employee_Provident_Fund': [1500, 2000, 2500, 3000, 3500],
11     'Professional_Tax': [500, 600, 700, 800, 900]
12 }
```

## OUTPUT

```
PS F:\VIDHI ROHIRA SY BTECH CE> & C:/Users/DELL/AppData/Local/Microsoft/WindowsApps/python3.11.exe "f:/VIDHI ROHIRA SY BTECH CE/SEMESTER 3/LAB3.py"
Employee ID with minimum net salary: 1 with ₹33000
Employee ID with maximum net salary: 5 with ₹54600
PS F:\VIDHI ROHIRA SY BTECH CE>
```

## TEST CASE 2:-

```
1  data = {
2      'Employee_ID': [203, 101, 305, 204, 102],
3      'Basic_Salary': [35000, 28000, 40000, 32000, 29000],
4      'HRA': [7000, 6000, 9000, 7000, 6500],
5      'Other_Allowances': [3000, 2500, 4000, 3500, 3000],
6      'Income_Tax': [2500, 1500, 3000, 2000, 1800],
7      'Employee_Provident_Fund': [2000, 1000, 2500, 1500, 1200],
8      'Professional_Tax': [600, 300, 700, 400, 350]
9  }
```

## OUTPUT

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS F:\VIDHI ROHIRA SY BTECH CE> & C:/Users/DELL/AppData/Local/Microsoft/WindowsApps/python3.11.exe "f:/VIDHI ROHIRA SY BTECH CE/SEMESTER 3/LAB3.py"
Employee ID with minimum net salary: 101 with ₹33700
Employee ID with maximum net salary: 305 with ₹46800
PS F:\VIDHI ROHIRA SY BTECH CE>
```

## TEST CASE 3:-

```
data = {  
    'Employee_ID': [507, 303, 101, 209, 404],  
    'Basic_Salary': [27000, 32000, 29000, 33000, 31000],  
    'HRA': [5000, 7000, 6500, 7500, 6000],  
    'Other_Allowances': [2500, 3000, 2800, 3200, 2900],  
    'Income_Tax': [1800, 2500, 2000, 2600, 2200],  
    'Employee_Provident_Fund': [1200, 1500, 1300, 1600, 1400],  
    'Professional_Tax': [400, 500, 450, 550, 500]  
}
```

## OUTPUT:-

```
PS F:\VIDHI ROHIRA SY BTECH CE> & C:/Users/DELL/AppData/Local/Microsoft/WindowsApps/python3.11.exe "F:/VIDHI ROHIRA SY BTECH CE/SEMESTER 3/L  
AB3.py"  
Employee ID with minimum net salary: 507 with ₹31100  
Employee ID with maximum net salary: 209 with ₹38950  
PS F:\VIDHI ROHIRA SY BTECH CE>
```

## TEST CASE 4:-

```
data = {  
    'Employee_ID': [301, 204, 102, 305, 107],  
    'Basic_Salary': [28000, 32000, -10000, 40000, 35000],  
    'HRA': [7000, 8000, 3000, -1000, 5000],  
    'Other_Allowances': [3000, 2500, 4000, 5000, 3500],  
    'Income_Tax': [2000, 1500, 2500, 3000, -500],  
    'Employee_Provident_Fund': [1500, -1000, 2000, 2500, 1800],  
    'Professional_Tax': [500, 600, 700, -200, 0]  
}
```

## OUTPUT:-

```
Employee ID with maximum net salary: 209 with ₹38950  
PS F:\VIDHI ROHIRA SY BTECH CE> & C:/Users/DELL/AppData/Local/Microsoft/WindowsApps/python3.11.exe "F:/VIDHI ROHIRA SY BTECH CE/SEMESTER 3/L  
AB3.py"  
Employee ID with minimum net salary: 102 with ₹-8200  
Employee ID with maximum net salary: 107 with ₹42200  
PS F:\VIDHI ROHIRA SY BTECH CE>
```

## TEST CASE 5:-

```
3
4 data = {
5     'Employee_ID': [401, 502, 303, 204, 105],
6     'Basic_Salary': [32000, 28000, 'N/A', 35000, None],
7     'HRA': [6000, 'Unknown', 7000, 8000, 5000],
8     'Other_Allowances': [2500, 3000, 3500, 'NaN', 4000],
9     'Income_Tax': [1800, 1500, 2000, 'None', 2200],
10    'Employee_Provident_Fund': [1200, 1000, 1500, 2000, 'Invalid'],
11    'Professional_Tax': [400, 500, 'Missing', 600, 500]
12 }
```

## OUTPUT:-

```
PS F:\VIDHI ROHIRA SY BTECH CE> & c:/Users/DELL/AppData/Local/Microsoft/WindowsApps/python3.11.exe "f:/VIDHI ROHIRA SY BTECH CE/SEMESTER 3/LAB3.py"
f:\VIDHI ROHIRA SY BTECH CE\SEMESTER 3\LAB3.py:19: FutureWarning: Downcasting behavior in `replace` is deprecated and will be removed in a future version. To retain the old behavior, explicitly call `result.infer_objects(copy=False)`. To opt-in to the future behavior, set `pd.set_option('future.no_silent_downcasting', True)`
  df.replace({'N/A': np.nan, 'Unknown': np.nan, 'NaN': np.nan, 'None': np.nan, 'Invalid': np.nan, 'Missing': np.nan}, inplace=True)
Employee ID with minimum net salary: 401 with ₹37100.0
Employee ID with maximum net salary: 401 with ₹37100.0
PS F:\VIDHI ROHIRA SY BTECH CE>
```