Output
1a

Enter the length of the rectangle: 5
Enter the width of the rectangle: 3
The area of the rectangle is: 15.0

1b
Result array after multiplication: 6 14 24 36 50

1c

Ascending Order: 1 2 3 4 5
Descending Order: 5 4 3 2 1

2a

Enter details for Employee 1:
Name: John
Emp_ID: 1
Department: Sales
Age: 30
Designation: Manager
Salary: 55000.0

Enter details for Employee 2:
Name: Sarah
Emp_ID: 2
Department: Sales
Age: 25
Designation: Associate
Salary: 35000.0

Enter details for Employee 3:
Name: Michael
Emp_ID: 3
Department: Purchase
Age: 35
Designation: Manager
Salary: 60000.0

Enter details for Employee 4:
Name: Emma
Emp_ID: 4
Department: IT
Age: 28
Designation: Engineer
Salary: 45000.0

Enter details for Employee 5:
Name: Alex
Emp_ID: 5
Department: IT
Age: 22
Designation: Trainee
Salary: 25000.0

Enter details for Employee 6:
Name: Lily
Emp_ID: 6
Department: Sales
Age: 27
Designation: Associate
Salary: 36000.0

Enter details for Employee 7:
Name: David
Emp_ID: 7
Department: Sales
Age: 33
Designation: Manager
Salary: 59000.0

Details of Employees:
Name: John, Emp_ID: 1, Department: Sales, Age: 30, Designation: Manager, Salary: 55000.0
Name: Sarah, Emp_ID: 2, Department: Sales, Age: 25, Designation: Associate, Salary: 35000.0
Name: Michael, Emp_ID: 3, Department: Purchase, Age: 35, Designation: Manager, Salary: 60000.0
Name: Emma, Emp_ID: 4, Department: IT, Age: 28, Designation: Engineer, Salary: 45000.0
Name: Alex, Emp_ID: 5, Department: IT, Age: 22, Designation: Trainee, Salary: 25000.0
Name: Lily, Emp_ID: 6, Department: Sales, Age: 27, Designation: Associate, Salary: 36000.0
Name: David, Emp_ID: 7, Department: Sales, Age: 33, Designation: Manager, Salary: 59000.0

2nd b
Total Salary of Sales Department: 95000.0

2ndc
Details of the Highest-Paid Manager in Purchase Department:
Name: Michael, Emp_ID: 3, Department: Purchase, Age: 35, Designation: Manager, Salary: 60000.0