

List of employee details in the 'Admin' department:

ENO: 1, ENAME: Amal, DNO: 10, SALARY: 30000

ENO: 6, ENAME: Parimal, DNO: 10, SALARY: 20000



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Task3.java ×

```
1 package Assesment;
2 import java.io.IOException;
11
12 public class Task3 {
13     private static Map<Integer, String> departmentDatabase = new HashMap<>();
14     private static Map<Integer, Employee> employeeDatabase = new HashMap<>();
15
16     public static void main(String[] args) throws IOException {
17         // Populate the in-memory databases
18         departmentDatabase.put(10, "Admin");
19         departmentDatabase.put(20, "Accounts");
20         departmentDatabase.put(30, "Sales");
21         departmentDatabase.put(40, "Marketing");
22         departmentDatabase.put(50, "Purchasing");
23
24         employeeDatabase.put(1, new Employee(1, "Amal", 10, 30000));
25         employeeDatabase.put(2, new Employee(2, "Shyamal", 30, 50000));
26         employeeDatabase.put(3, new Employee(3, "Kamal", 40, 10000));
27         employeeDatabase.put(4, new Employee(4, "Nirmal", 50, 60000));
28         employeeDatabase.put(5, new Employee(5, "Bimal", 20, 40000));
29         employeeDatabase.put(6, new Employee(6, "Parimal", 10, 20000));
30
31         // Create an HTTP server
32         HttpServer server = HttpServer.create(new InetSocketAddress(9000), 0);
33         server.createContext("/api", new DepartmentNameHandlers());
34         server.start();
35
36         System.out.println("Server started on port 9000...");
37     }
38
39     static class DepartmentNameHandlers implements HttpHandler {
40         @Override
41         public void handle(HttpExchange exchange) throws IOException {
42             String response = "List of employee details in the 'Admin' department:\n";
43
44             for (Employee employee : employeeDatabase.values()) {
45                 int dno = employee.getDno();
46                 String departmentName = departmentDatabase.get(dno);
47
48                 if (departmentName != null && departmentName.equals("Admin")) {
49                     response += "ENO: " + employee.getEno() +
50                             ", ENAME: " + employee.getEname() +
51                             ", DNO: " + dno +
52                             ", SALARY: " + employee.getSalary() +
53                             "\n";
54                 }
55             }
56         }
57     }
58 }
```



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Task3.java ×

```
53  
54     }  
55     }  
56  
57     sendResponse(exchange, response, 200);  
58 }  
59  
60 private void sendResponse(HttpExchange exchange, String response, int statusCode) throws IOException {  
61     exchange.sendResponseHeaders(statusCode, response.length());  
62     OutputStream os = exchange.getResponseBody();  
63     os.write(response.getBytes());  
64     os.close();  
65 }  
66 }  
67  
68 public static class Employee  
69 {  
70     private int eno;  
71     private String ename;  
72     private int dno;  
73     private int salary;  
74  
75     public Employee(int eno, String ename, int dno, int salary)  
76     {  
77         this.eno = eno;  
78         this.ename = ename;  
79         this.dno = dno;  
80         this.salary = salary;  
81     }  
82  
83     public int getEno()  
84     {  
85         return eno;  
86     }  
87  
88     public String getEname()  
89     {  
90         return ename;  
91     }  
92  
93     public int getDno()  
94     {  
95         return dno;  
96     }  
97  
98     public int getSalary()  
99     {
```




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Task3.java ×

```
80         this.salary = salary;
81     }
82
83     public int getEno()
84     {
85         return eno;
86     }
87
88     public String getEname()
89     {
90         return ename;
91     }
92
93     public int getDno()
94     {
95         return dno;
96     }
97
98     public int getSalary()
99     {
100         return salary;
101     }
102 }
103
104 public static class Department
105 {
106     private int dno;
107     private String dname;
108
109     public Department(int dno, String dname)
110     {
111         this.dno = dno;
112         this.dname = dname;
113     }
114
115     public int getDno()
116     {
117         return dno;
118     }
119
120     public String getDname()
121     {
122         return dname;
123     }
124 }
125 }
```