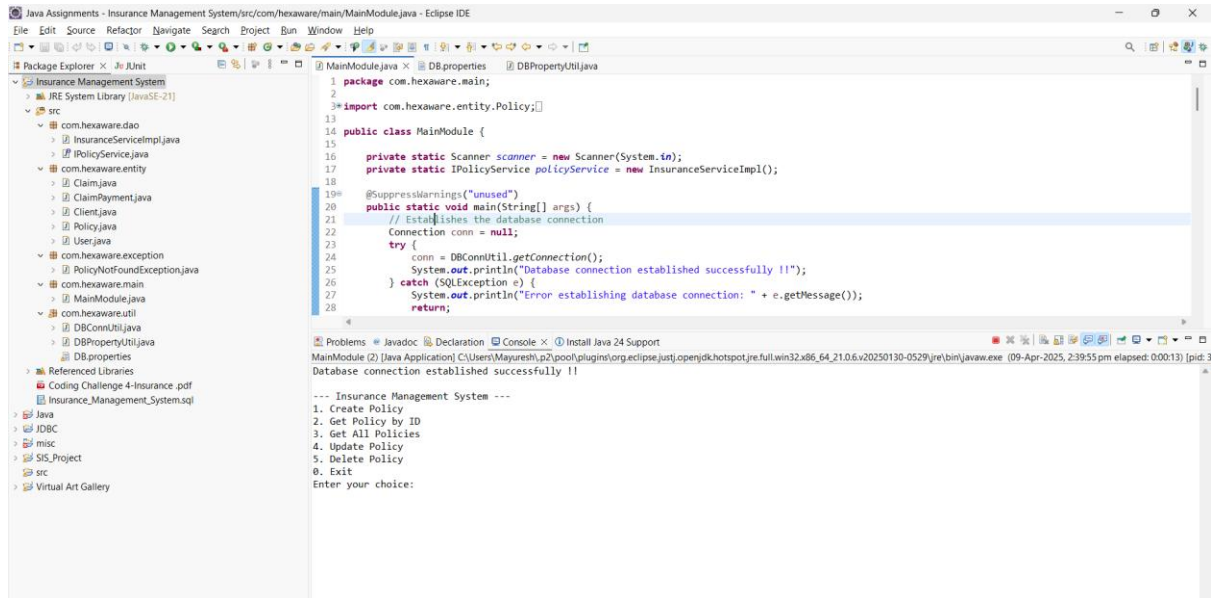


Insurance Management System

Output Screenshot's

Output Window:



```
1 package com.hexaware.main;
2
3 import com.hexaware.entity.Policy;
4
5 public class MainModule {
6
7     private static Scanner scanner = new Scanner(System.in);
8     private static IPolicyService policyService = new InsuranceServiceImpl();
9
10    @SuppressWarnings("unused")
11    public static void main(String[] args) {
12        // Establishes the database connection
13        Connection conn = null;
14        try {
15            conn = DBConnUtil.getConnection();
16            System.out.println("Database connection established successfully !!");
17        } catch (SQLException e) {
18            System.out.println("Error establishing database connection: " + e.getMessage());
19        }
20        return;
21    }
22 }
```

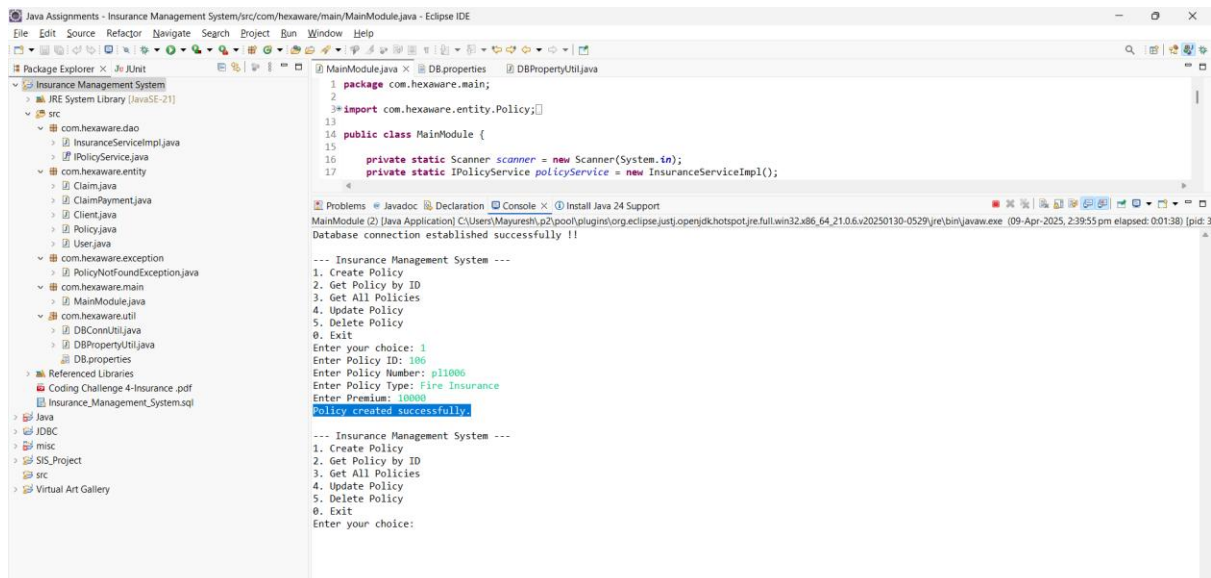
Database connection established successfully !!

--- Insurance Management System ---

1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. Update Policy
5. Delete Policy
0. Exit

Enter your choice:

Option 1: Create a New Policy



```
1 package com.hexaware.main;
2
3 import com.hexaware.entity.Policy;
4
5 public class MainModule {
6
7     private static Scanner scanner = new Scanner(System.in);
8     private static IPolicyService policyService = new InsuranceServiceImpl();
9
10    @SuppressWarnings("unused")
11    public static void main(String[] args) {
12        // Establishes the database connection
13        Connection conn = null;
14        try {
15            conn = DBConnUtil.getConnection();
16            System.out.println("Database connection established successfully !!");
17        } catch (SQLException e) {
18            System.out.println("Error establishing database connection: " + e.getMessage());
19        }
20        return;
21    }
22 }
```

Database connection established successfully !!

--- Insurance Management System ---

1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. Update Policy
5. Delete Policy
0. Exit

Enter your choice: 1

Enter Policy ID: 106

Enter Policy Number: p11006

Enter Policy Type: Fire Insurance

Enter Premium: 10000

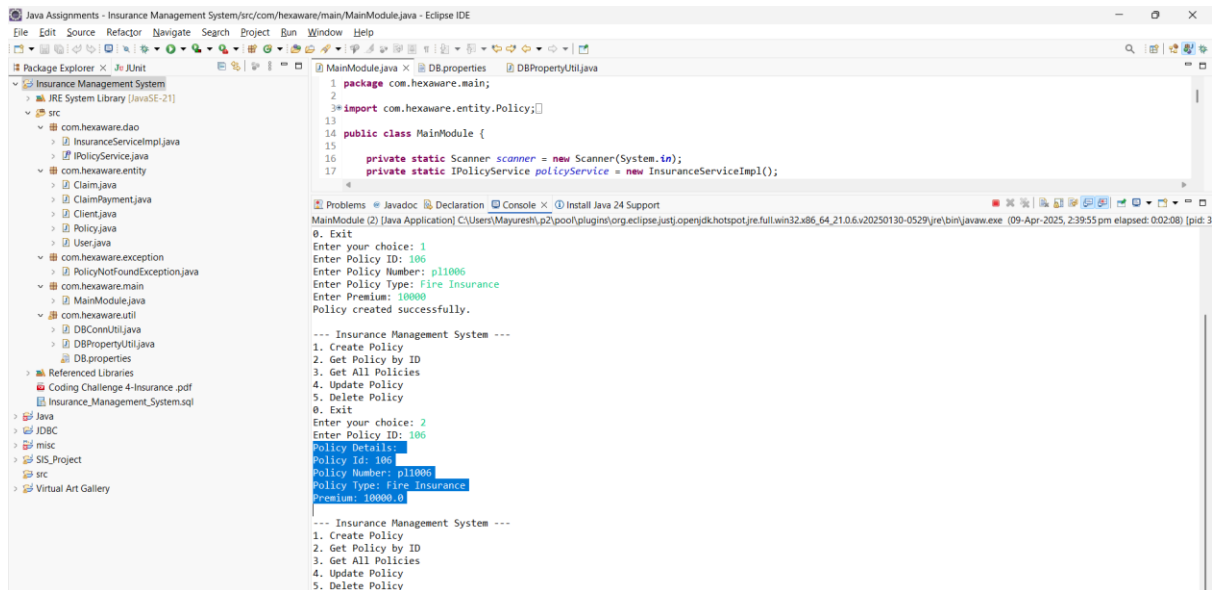
Policy created successfully

--- Insurance Management System ---

1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. Update Policy
5. Delete Policy
0. Exit

Enter your choice:

Option 2: Retrieve Policy by ID



```
package com.hexaware.main;
import com.hexaware.entity.Policy;

public class MainModule {
    private static Scanner scanner = new Scanner(System.in);
    private static IPolicyService policyService = new InsuranceServiceImpl();

    public static void main(String[] args) {
        MainModule module = new MainModule();
        module.run();
    }

    private void run() {
        System.out.println("Insurance Management System");
        System.out.println("1. Create Policy");
        System.out.println("2. Get Policy by ID");
        System.out.println("3. Get All Policies");
        System.out.println("4. Update Policy");
        System.out.println("5. Delete Policy");
        System.out.println("0. Exit");
        System.out.print("Enter your choice: ");
        int choice = scanner.nextInt();
        switch (choice) {
            case 1:
                module.createPolicy();
                break;
            case 2:
                module.getPolicyById();
                break;
            case 3:
                module.getAllPolicies();
                break;
            case 4:
                module.updatePolicy();
                break;
            case 5:
                module.deletePolicy();
                break;
            case 0:
                System.exit(0);
            default:
                System.out.println("Invalid choice. Please try again.");
        }
    }

    private void createPolicy() {
        System.out.println("Enter Policy ID: ");
        String id = scanner.next();
        System.out.println("Enter Policy Number: ");
        String number = scanner.next();
        System.out.println("Enter Policy Type: ");
        String type = scanner.next();
        System.out.println("Enter Premium: ");
        double premium = scanner.nextDouble();
        Policy policy = new Policy(id, number, type, premium);
        policyService.createPolicy(policy);
        System.out.println("Policy created successfully.");
    }

    private void getPolicyById() {
        System.out.println("Enter Policy ID: ");
        String id = scanner.next();
        Policy policy = policyService.getPolicyById(id);
        System.out.println("Policy Details:");
        System.out.println("Policy ID: " + id);
        System.out.println("Policy Number: " + policy.getNumber());
        System.out.println("Policy Type: " + policy.getType());
        System.out.println("Premium: " + policy.getPremium());
    }

    private void getAllPolicies() {
        System.out.println("All Policies:");
        List<Policy> policies = policyService.getAllPolicies();
        for (Policy policy : policies) {
            System.out.println("Policy ID: " + policy.getId() + ", Policy Number: " + policy.getNumber() + ", Policy Type: " + policy.getType() + ", Premium: " + policy.getPremium());
        }
    }

    private void updatePolicy() {
        System.out.println("Enter Policy ID: ");
        String id = scanner.next();
        Policy policy = policyService.getPolicyById(id);
        System.out.println("Enter Policy Number: ");
        String number = scanner.next();
        System.out.println("Enter Policy Type: ");
        String type = scanner.next();
        System.out.println("Enter Premium: ");
        double premium = scanner.nextDouble();
        Policy updatedPolicy = new Policy(id, number, type, premium);
        policyService.updatePolicy(updatedPolicy);
        System.out.println("Policy updated successfully.");
    }

    private void deletePolicy() {
        System.out.println("Enter Policy ID: ");
        String id = scanner.next();
        policyService.deletePolicy(id);
        System.out.println("Policy deleted successfully.");
    }
}
```

Insurance Management System

1. Create Policy

2. Get Policy by ID

3. Get All Policies

4. Update Policy

5. Delete Policy

0. Exit

Enter your choice: 1

Enter Policy ID: 106

Enter Policy Number: p11006

Enter Policy Type: Fire Insurance

Enter Premium: 10000

Policy created successfully.

--- Insurance Management System ---

1. Create Policy

2. Get Policy by ID

3. Get All Policies

4. Update Policy

5. Delete Policy

0. Exit

Enter your choice: 2

Enter Policy ID: 106

Policy Details:

Policy ID: 106

Policy Number: p11006

Policy Type: Fire Insurance

Premium: 10000.0

--- Insurance Management System ---

1. Create Policy

2. Get Policy by ID

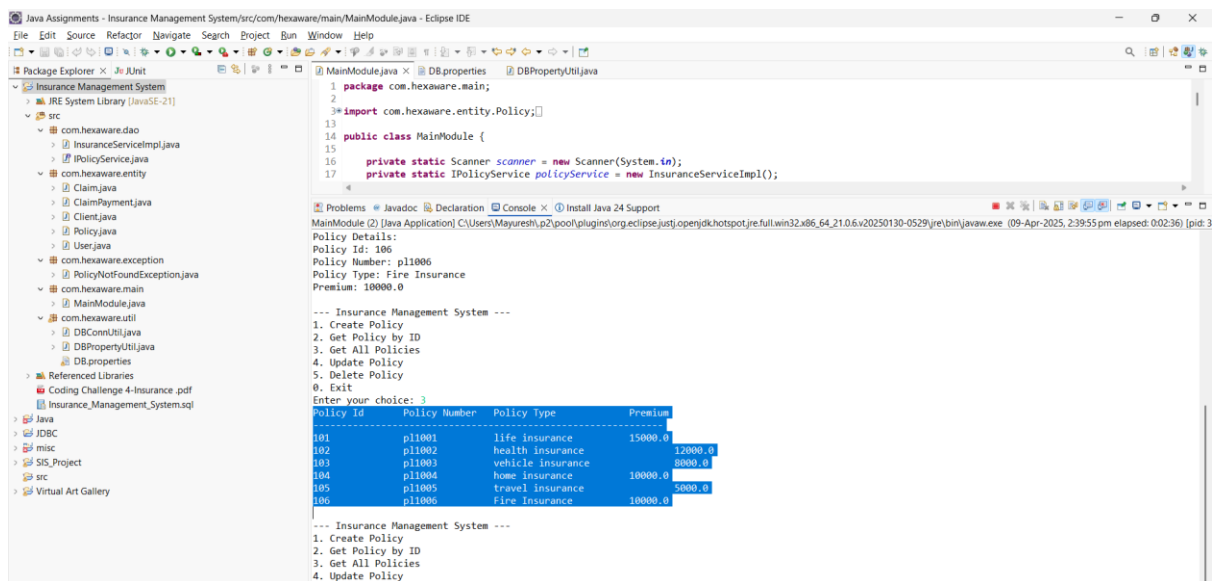
3. Get All Policies

4. Update Policy

5. Delete Policy

0. Exit

Option 3: Retrieve All Policies



```
package com.hexaware.main;
import com.hexaware.entity.Policy;

public class MainModule {
    private static Scanner scanner = new Scanner(System.in);
    private static IPolicyService policyService = new InsuranceServiceImpl();

    public static void main(String[] args) {
        MainModule module = new MainModule();
        module.run();
    }

    private void run() {
        System.out.println("Insurance Management System");
        System.out.println("1. Create Policy");
        System.out.println("2. Get Policy by ID");
        System.out.println("3. Get All Policies");
        System.out.println("4. Update Policy");
        System.out.println("5. Delete Policy");
        System.out.println("0. Exit");
        System.out.print("Enter your choice: ");
        int choice = scanner.nextInt();
        switch (choice) {
            case 1:
                module.createPolicy();
                break;
            case 2:
                module.getPolicyById();
                break;
            case 3:
                module.getAllPolicies();
                break;
            case 4:
                module.updatePolicy();
                break;
            case 5:
                module.deletePolicy();
                break;
            case 0:
                System.exit(0);
            default:
                System.out.println("Invalid choice. Please try again.");
        }
    }

    private void createPolicy() {
        System.out.println("Enter Policy ID: ");
        String id = scanner.next();
        System.out.println("Enter Policy Number: ");
        String number = scanner.next();
        System.out.println("Enter Policy Type: ");
        String type = scanner.next();
        System.out.println("Enter Premium: ");
        double premium = scanner.nextDouble();
        Policy policy = new Policy(id, number, type, premium);
        policyService.createPolicy(policy);
        System.out.println("Policy created successfully.");
    }

    private void getPolicyById() {
        System.out.println("Enter Policy ID: ");
        String id = scanner.next();
        Policy policy = policyService.getPolicyById(id);
        System.out.println("Policy Details:");
        System.out.println("Policy ID: " + id);
        System.out.println("Policy Number: " + policy.getNumber());
        System.out.println("Policy Type: " + policy.getType());
        System.out.println("Premium: " + policy.getPremium());
    }

    private void getAllPolicies() {
        System.out.println("All Policies:");
        List<Policy> policies = policyService.getAllPolicies();
        for (Policy policy : policies) {
            System.out.println("Policy ID: " + policy.getId() + ", Policy Number: " + policy.getNumber() + ", Policy Type: " + policy.getType() + ", Premium: " + policy.getPremium());
        }
    }

    private void updatePolicy() {
        System.out.println("Enter Policy ID: ");
        String id = scanner.next();
        Policy policy = policyService.getPolicyById(id);
        System.out.println("Enter Policy Number: ");
        String number = scanner.next();
        System.out.println("Enter Policy Type: ");
        String type = scanner.next();
        System.out.println("Enter Premium: ");
        double premium = scanner.nextDouble();
        Policy updatedPolicy = new Policy(id, number, type, premium);
        policyService.updatePolicy(updatedPolicy);
        System.out.println("Policy updated successfully.");
    }

    private void deletePolicy() {
        System.out.println("Enter Policy ID: ");
        String id = scanner.next();
        policyService.deletePolicy(id);
        System.out.println("Policy deleted successfully.");
    }
}
```

Insurance Management System

1. Create Policy

2. Get Policy by ID

3. Get All Policies

4. Update Policy

5. Delete Policy

0. Exit

Enter your choice: 3

Policy Id	Policy Number	Policy Type	Premium
1001	p11001	life Insurance	15000.0
1002	p11002	health Insurance	12000.0
1003	p11003	vehicle Insurance	8000.0
1004	p11004	home Insurance	10000.0
1005	p11005	travel Insurance	5000.0
1006	p11006	Fire Insurance	10000.0

--- Insurance Management System ---

1. Create Policy

2. Get Policy by ID

3. Get All Policies

4. Update Policy

Option 4: Update an Existing Policy

The screenshot shows the Eclipse IDE with the 'Insurance Management System' project. The 'MainModule.java' file is open, showing the main logic. The console output displays the following table of policies:

Policy Id	Policy Number	Policy Type	Premium
101	p11001	life insurance	15000.0
102	p11002	health insurance	12000.0
103	p11003	vehicle insurance	8000.0
104	p11004	home insurance	10000.0
105	p11005	travel insurance	5000.0
106	p11006	Fire Insurance	10000.0

The console also shows the following output for the 'Update Policy' option:

```
--- Insurance Management System ---
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. Update Policy
5. Delete Policy
0. Exit
Enter your choice: 4
Enter Policy ID to update: 106
Enter New Policy Number: p11007
Enter New Policy Type: Property Insurance
Enter New Premium: 11500
Policy updated successfully.

--- Insurance Management System ---
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. Update Policy
5. Delete Policy
0. Exit
```

Option 5: Delete Policy

The screenshot shows the Eclipse IDE with the 'Insurance Management System' project. The 'MainModule.java' file is open, showing the main logic. The console output displays the following table of existing policies:

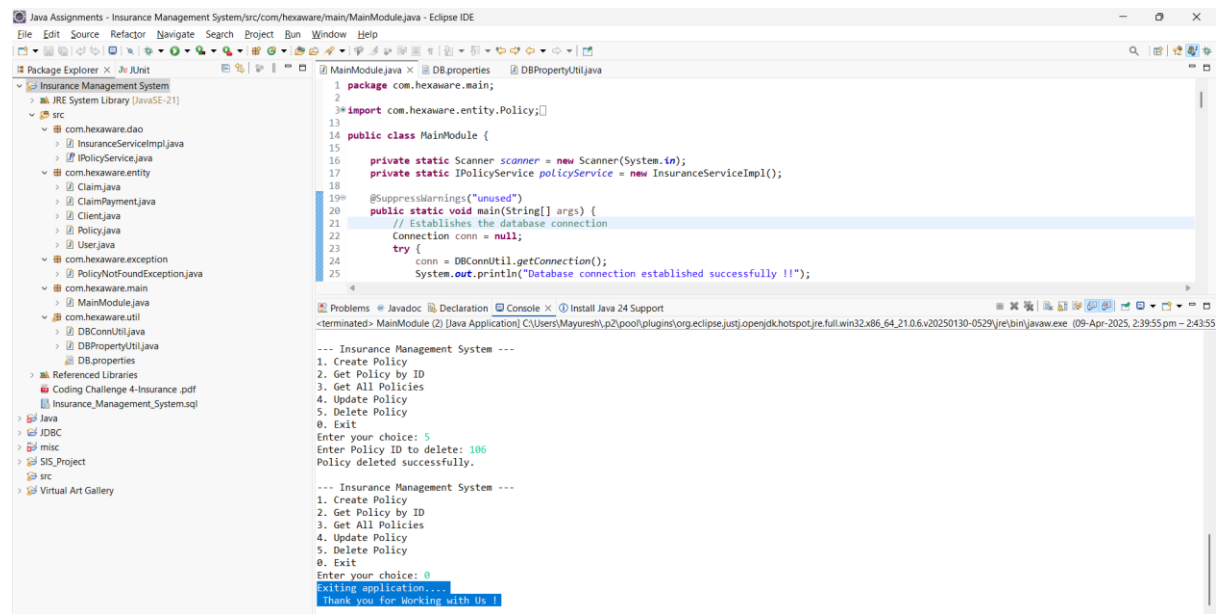
Policy Id	Policy Number	Policy Type	Premium
101	p11001	life insurance	15000.0
102	p11002	health insurance	12000.0
103	p11003	vehicle insurance	8000.0
104	p11004	home insurance	10000.0
105	p11005	travel insurance	5000.0
106	p11006	Fire Insurance	10000.0

The console also shows the following output for the 'Delete Policy' option:

```
--- Insurance Management System ---
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. Update Policy
5. Delete Policy
0. Exit
Enter your choice: 5
Enter Policy ID to delete: 106
Policy deleted successfully.

--- Insurance Management System ---
1. Create Policy
2. Get Policy by ID
3. Get All Policies
```

Exit



The screenshot displays the Eclipse IDE interface. The Package Explorer on the left shows the project structure for 'Insurance Management System'. The main editor window shows the code for 'MainModule.java'. The console at the bottom shows the application's execution, including a menu of options and the final 'Exit' command.

```
1 package com.hexaware.main;
2
3 import com.hexaware.entity.Policy;
4
5 public class MainModule {
6
7     private static Scanner scanner = new Scanner(System.in);
8     private static IPolicyService policyService = new InsuranceServiceImpl();
9
10    @SuppressWarnings("unused")
11    public static void main(String[] args) {
12        // Establishes the database connection
13        Connection conn = null;
14        try {
15            conn = DBConnUtil.getConnection();
16            System.out.println("Database connection established successfully !!");
17        } catch (Exception e) {
18            e.printStackTrace();
19        }
20    }
21 }
```

--- Insurance Management System ---
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. Update Policy
5. Delete Policy
0. Exit
Enter your choice: 5
Enter Policy ID to delete: 106
Policy deleted successfully.
--- Insurance Management System ---
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. Update Policy
5. Delete Policy
0. Exit
Enter your choice: 0
Exiting application....
Thank you for Working with Us !