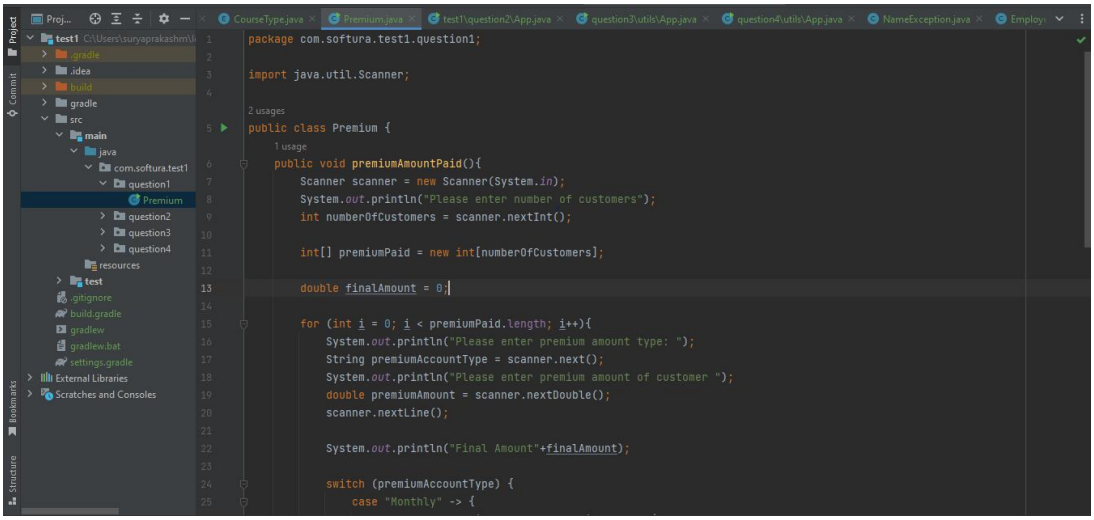
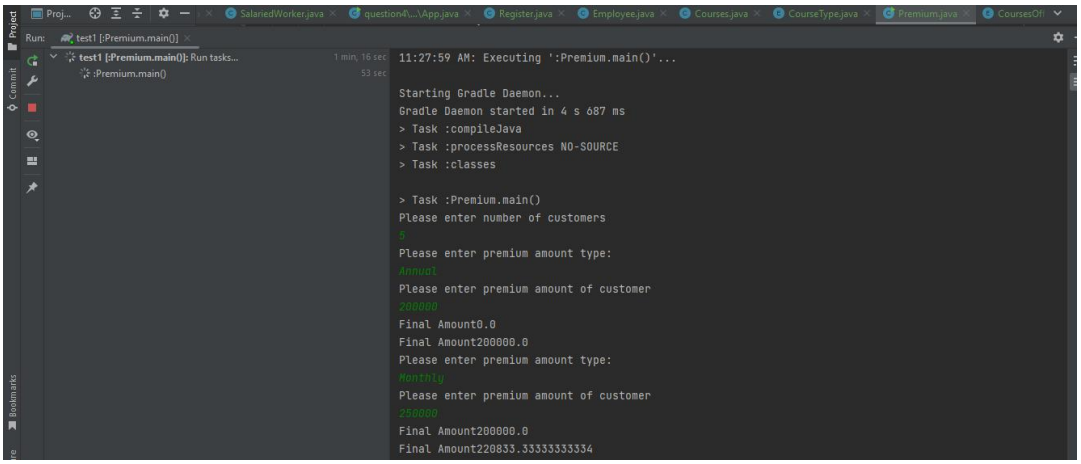
Question 1: -

Code: -

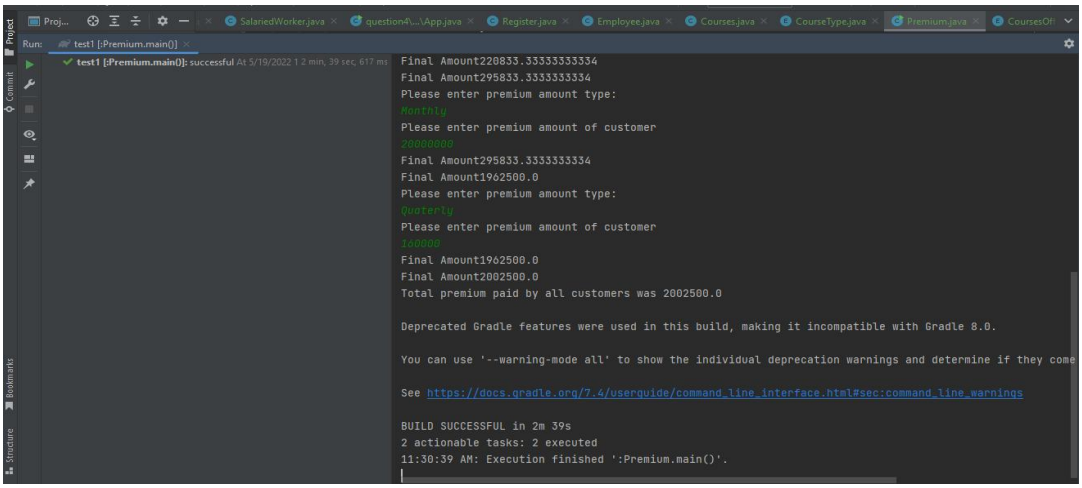


```
package com.softura.test1.question1;

import java.util.Scanner;

2 usages
public class Premium {
    1 usage
    public void premiumAmountPaid(){
        Scanner scanner = new Scanner(System.in);
        System.out.println("Please enter number of customers");
        int numberOfCustomers = scanner.nextInt();

        int[] premiumPaid = new int[numberOfCustomers];

        double finalAmount = 0;

        for (int i = 0; i < premiumPaid.length; i++){
            System.out.println("Please enter premium amount type: ");
            String premiumAccountType = scanner.next();
            System.out.println("Please enter premium amount of customer ");
            double premiumAmount = scanner.nextDouble();
            scanner.nextLine();

            System.out.println("Final Amount"+finalAmount);

            switch (premiumAccountType) {
                case "Monthly" -> {
```

Outputs: -



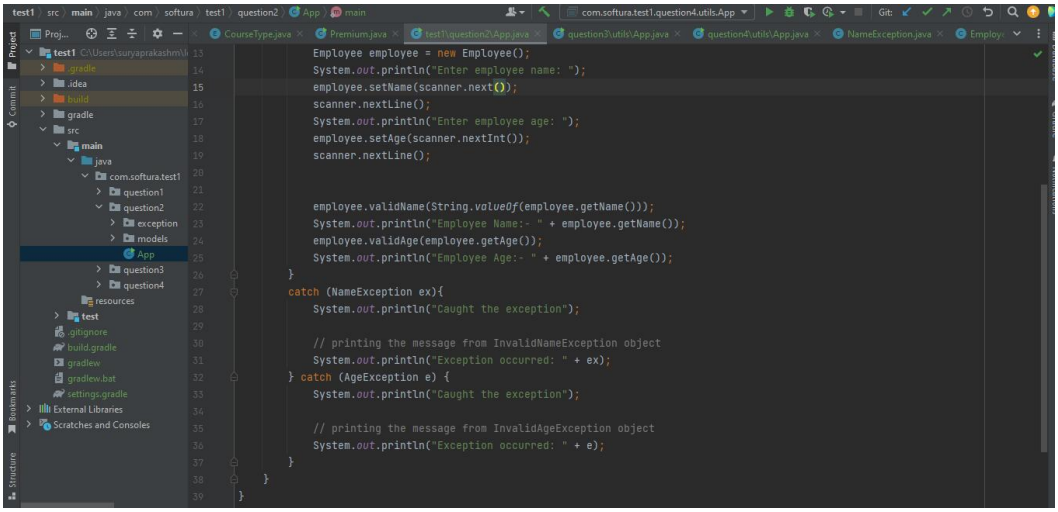
```
11:27:59 AM: Executing ':Premium.main()'...

Starting Gradle Daemon...
Gradle Daemon started in 4 s 687 ms
> Task :compileJava
> Task :processResources NO-SOURCE
> Task :classes

> Task :Premium.main()
Please enter number of customers
5
Please enter premium amount type:
Annual
Please enter premium amount of customer
200000
Final Amount0.0
Final Amount200000.0
Please enter premium amount type:
Monthly
Please enter premium amount of customer
250000
Final Amount200000.0
Final Amount220833.33333333334
```



```
Final Amount220833.33333333334
Final Amount295833.3333333334
Please enter premium amount type:
Monthly
Please enter premium amount of customer
20000000
Final Amount295833.3333333334
Final Amount1962500.0
Please enter premium amount type:
Quoterly
Please enter premium amount of customer
100000
Final Amount1962500.0
Final Amount2002500.0
Total premium paid by all customers was 2002500.0

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come

See https://docs.gradle.org/7.4/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 2m 39s
2 actionable tasks: 2 executed
11:30:39 AM: Execution finished ':Premium.main()'.
```

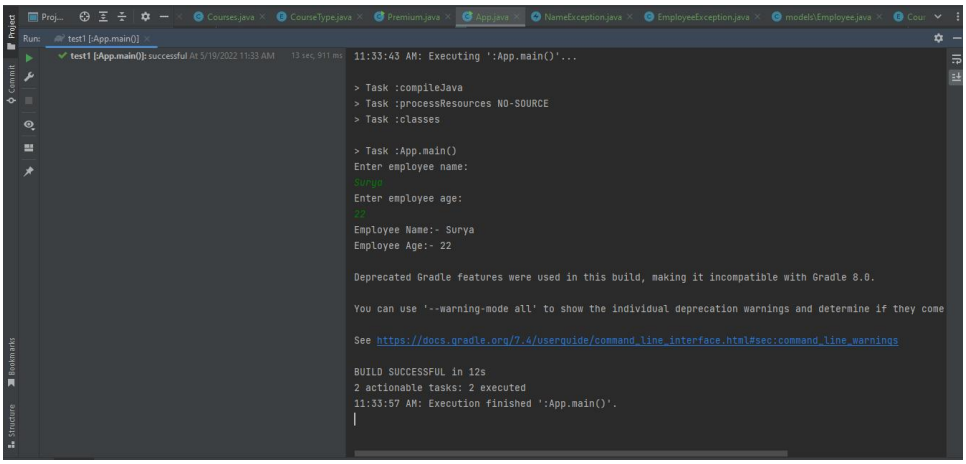
Question-2

Code: -

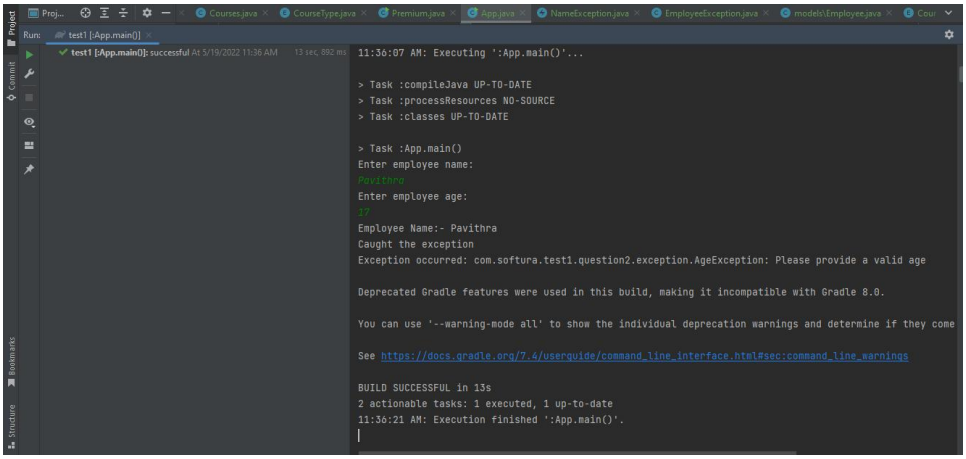


```
            Employee employee = new Employee();
            System.out.println("Enter employee name: ");
            employee.setName(scanner.next());
            scanner.nextLine();
            System.out.println("Enter employee age: ");
            employee.setAge(scanner.nextInt());
            scanner.nextLine();


            employee.validName(String.valueOf(employee.getName()));
            System.out.println("Employee Name:- " + employee.getName());
            employee.validAge(employee.getAge());
            System.out.println("Employee Age:- " + employee.getAge());
        }
        catch (NameException ex){
            System.out.println("Caught the exception");

            // printing the message from InvalidNameException object
            System.out.println("Exception occurred: " + ex);
        } catch (AgeException e) {
            System.out.println("Caught the exception");

            // printing the message from InvalidAgeException object
            System.out.println("Exception occurred: " + e);
        }
    }
}
```

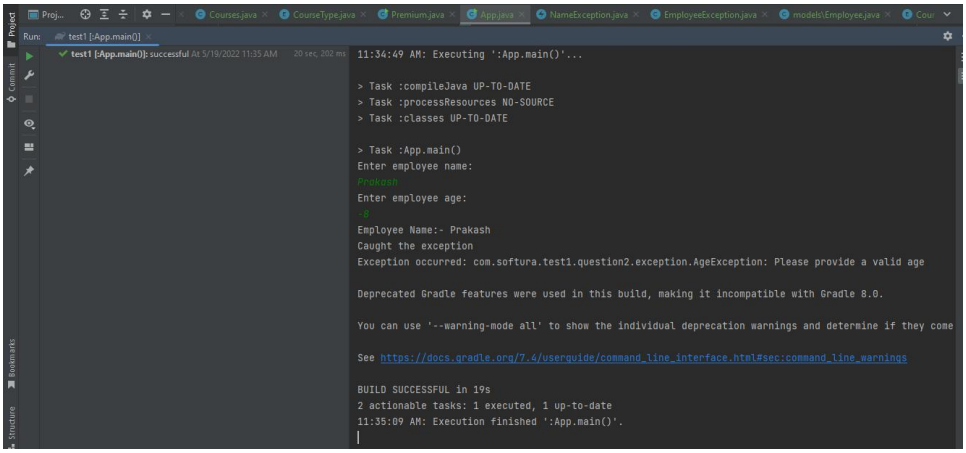
Outputs: -



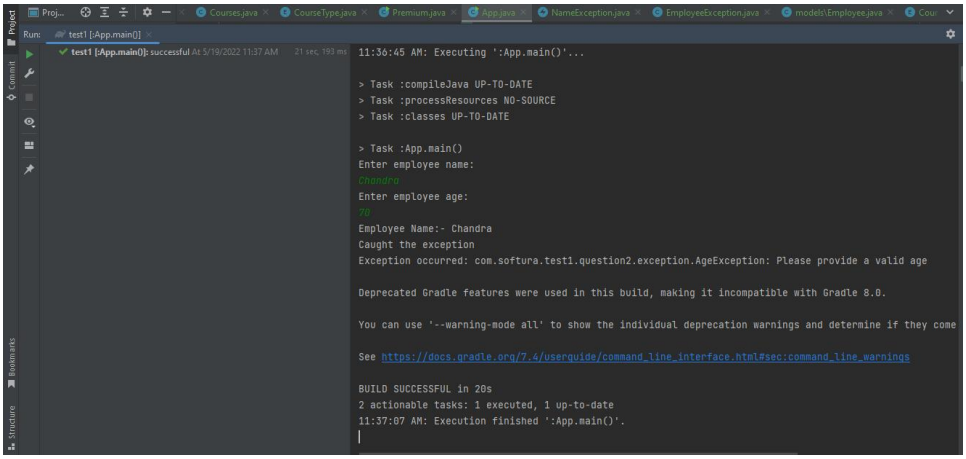
```
11:33:43 AM: Executing ':App.main()'...

> Task :compileJava
> Task :processResources NO-SOURCE
> Task :classes

> Task :App.main()
Enter employee name:
Surya
Enter employee age:
22
Employee Name:- Surya
Employee Age:- 22

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come

See https://docs.gradle.org/7.4/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 12s
2 actionable tasks: 2 executed
11:33:57 AM: Execution finished ':App.main()'.
```



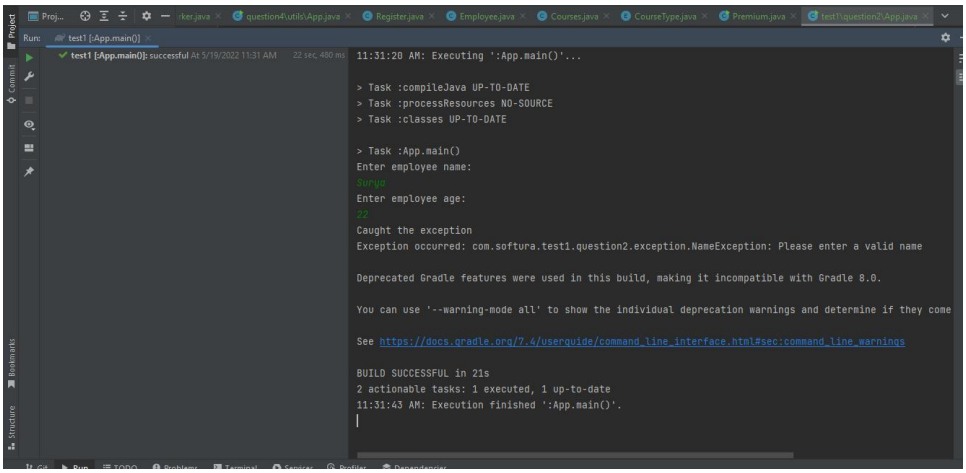
```
test1 [:App.main()]: successful At 5/19/2022 11:36 AM  13 sec, 882 ms

11:36:07 AM: Executing ':App.main()'...

> Task :compileJava UP-TO-DATE
> Task :processResources NO-SOURCE
> Task :classes UP-TO-DATE

> Task :App.main()
Enter employee name:
Pavithra
Enter employee age:
17
Employee Name:- Pavithra
Caught the exception
Exception occurred: com.softura.test1.question2.exception.AgeException: Please provide a valid age

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come

See https://docs.gradle.org/7.4/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 13s
2 actionable tasks: 1 executed, 1 up-to-date
11:36:21 AM: Execution finished ':App.main()'.
```



```
test1 [:App.main()]: successful At 5/19/2022 11:35 AM  20 sec, 202 ms

11:34:49 AM: Executing ':App.main()'...

> Task :compileJava UP-TO-DATE
> Task :processResources NO-SOURCE
> Task :classes UP-TO-DATE

> Task :App.main()
Enter employee name:
Prakash
Enter employee age:
-8
Employee Name:- Prakash
Caught the exception
Exception occurred: com.softura.test1.question2.exception.AgeException: Please provide a valid age

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come

See https://docs.gradle.org/7.4/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 19s
2 actionable tasks: 1 executed, 1 up-to-date
11:35:09 AM: Execution finished ':App.main()'.
```

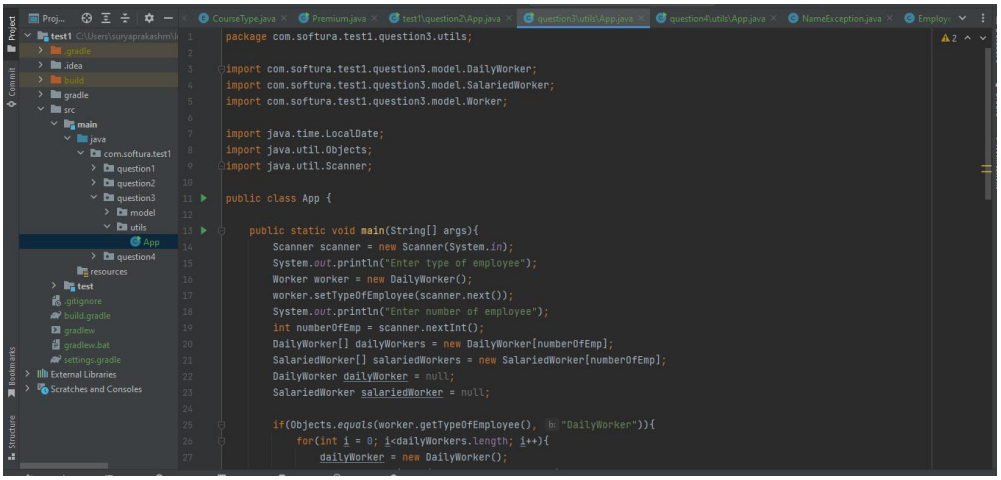


```
test1 [:App.main()]: successful At 5/19/2022 11:37 AM  21 sec, 193 ms

11:36:45 AM: Executing ':App.main()'...

> Task :compileJava UP-TO-DATE
> Task :processResources NO-SOURCE
> Task :classes UP-TO-DATE

> Task :App.main()
Enter employee name:
Chandra
Enter employee age:
70
Employee Name:- Chandra
Caught the exception
Exception occurred: com.softura.test1.question2.exception.AgeException: Please provide a valid age

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come

See https://docs.gradle.org/7.4/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 20s
2 actionable tasks: 1 executed, 1 up-to-date
11:37:07 AM: Execution finished ':App.main()'.
```


Project
Commit
Bookmarks
Structure
Run: test1 [:App.main()]
test1 [:App.main()]: successful At 5/19/2022 11:31 AM 22 sec, 480 ms
11:31:20 AM: Executing ':App.main()'...
> Task :compileJava UP-TO-DATE
> Task :processResources NO-SOURCE
> Task :classes UP-TO-DATE
> Task :App.main()
Enter employee name:
Surya
Enter employee age:
22
Caught the exception
Exception occurred: com.softura.test1.question2.exception.NameException: Please enter a valid name
Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.
You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come
See https://docs.gradle.org/7.4/userguide/command_line_interface.html#sec:command_line_warnings
BUILD SUCCESSFUL in 21s
2 actionable tasks: 1 executed, 1 up-to-date
11:31:43 AM: Execution finished ':App.main()'.

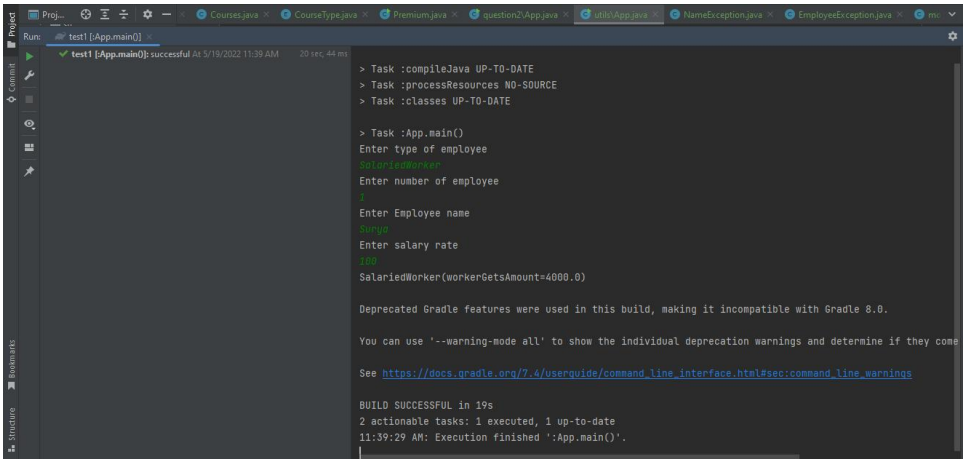
Question3: -

Code: -

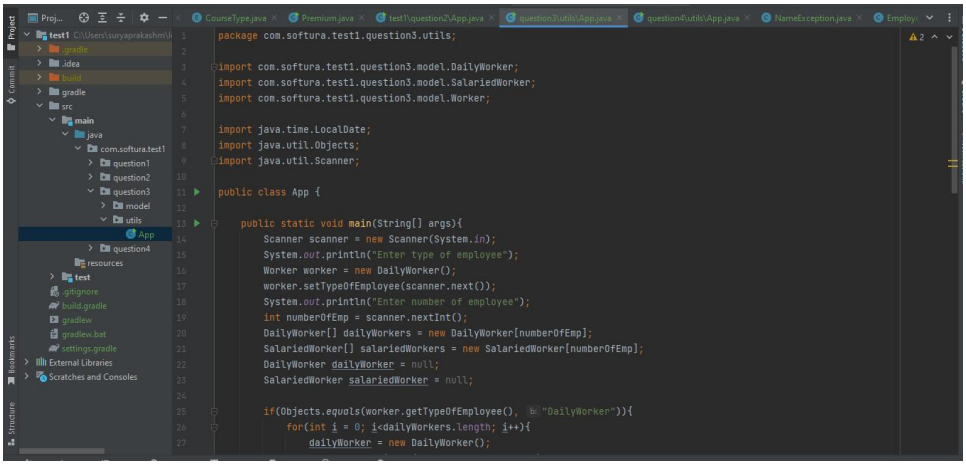


```
package com.softura.test1.question3.utils;

import com.softura.test1.question3.model.DailyWorker;
import com.softura.test1.question3.model.SalariedWorker;
import com.softura.test1.question3.model.Worker;

import java.time.LocalDate;
import java.util.Objects;
import java.util.Scanner;

public class App {

    public static void main(String[] args){
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter type of employee");
        Worker worker = new DailyWorker();
        worker.setTypeOfEmployee(scanner.next());
        System.out.println("Enter number of employee");
        int numberOfEmp = scanner.nextInt();
        DailyWorker[] dailyWorkers = new DailyWorker[numberOfEmp];
        SalariedWorker[] salariedWorkers = new SalariedWorker[numberOfEmp];
        DailyWorker dailyWorker = null;
        SalariedWorker salariedWorker = null;

        if(Objects.equals(worker.getTypeOfEmployee(), "DailyWorker")){
            for(int i = 0; i<dailyWorkers.length; i++){
                dailyWorker = new DailyWorker();
```

Outputs: -



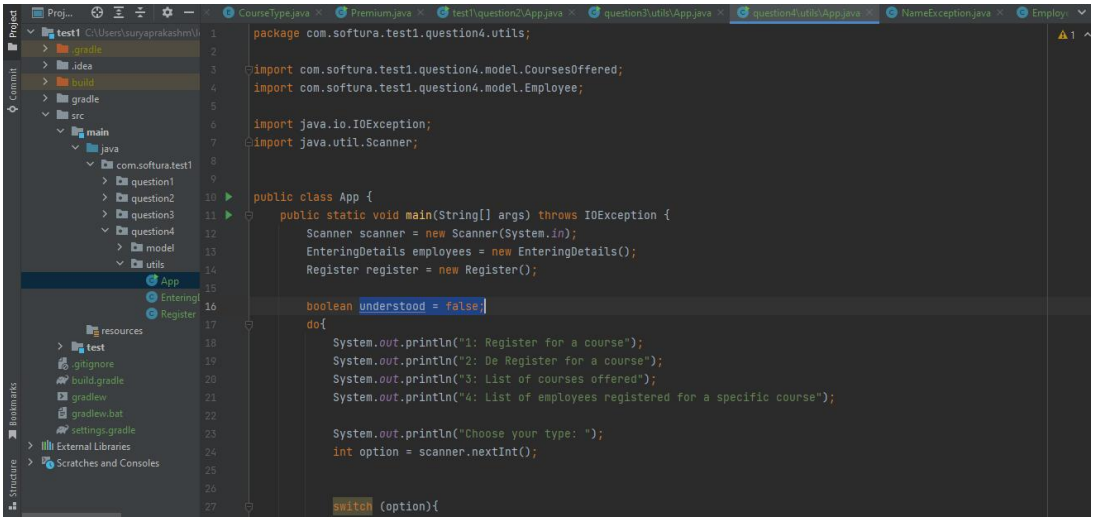
```
> Task :compileJava UP-TO-DATE
> Task :processResources NO-SOURCE
> Task :classes UP-TO-DATE

> Task :App.main()
Enter type of employee
SalariedWorker
Enter number of employee
1
Enter Employee name
Surya
Enter salary rate
100
SalariedWorker(workerGetsAmount=4000.0)

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come

See https://docs.gradle.org/7.4/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 19s
2 actionable tasks: 1 executed, 1 up-to-date
11:39:29 AM: Execution finished ':App.main()'.
```



```
package com.softura.test1.question3.utils;

import com.softura.test1.question3.model.DailyWorker;
import com.softura.test1.question3.model.SalariedWorker;
import com.softura.test1.question3.model.Worker;

import java.time.LocalDate;
import java.util.Objects;
import java.util.Scanner;

public class App {

    public static void main(String[] args){
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter type of employee");
        Worker worker = new DailyWorker();
        worker.setTypeOfEmployee(scanner.next());
        System.out.println("Enter number of employee");
        int numberOfEmp = scanner.nextInt();
        DailyWorker[] dailyWorkers = new DailyWorker[numberOfEmp];
        SalariedWorker[] salariedWorkers = new SalariedWorker[numberOfEmp];
        DailyWorker dailyWorker = null;
        SalariedWorker salariedWorker = null;

        if(Objects.equals(worker.getTypeOfEmployee(), "DailyWorker")){
            for(int i = 0; i<dailyWorkers.length; i++){
                dailyWorker = new DailyWorker();
```

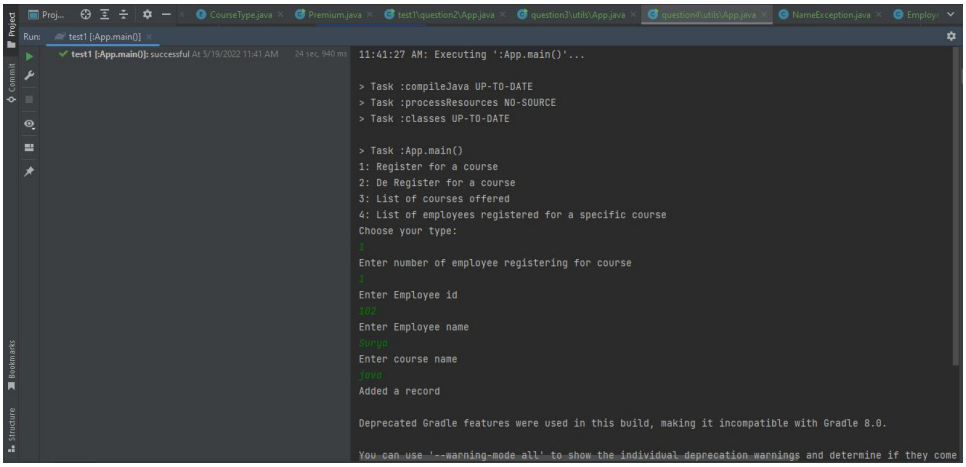
Question4: -

Code: -

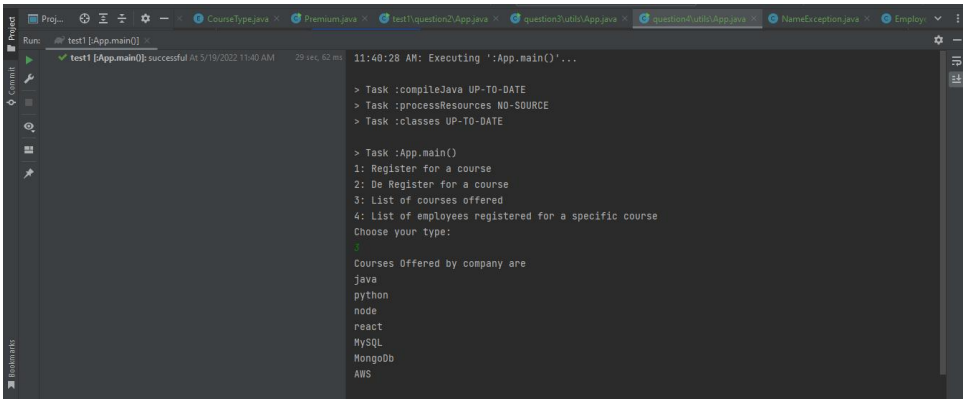


```
package com.softura.test1.question4.utils;

import com.softura.test1.question4.model.CoursesOffered;
import com.softura.test1.question4.model.Employee;

import java.io.IOException;
import java.util.Scanner;


public class App {
    public static void main(String[] args) throws IOException {
        Scanner scanner = new Scanner(System.in);
        EnteringDetails employees = new EnteringDetails();
        Register register = new Register();

        boolean understood = false;
        do{
            System.out.println("1: Register for a course");
            System.out.println("2: De Register for a course");
            System.out.println("3: List of courses offered");
            System.out.println("4: List of employees registered for a specific course");

            System.out.println("Choose your type: ");
            int option = scanner.nextInt();


            switch (option){
```

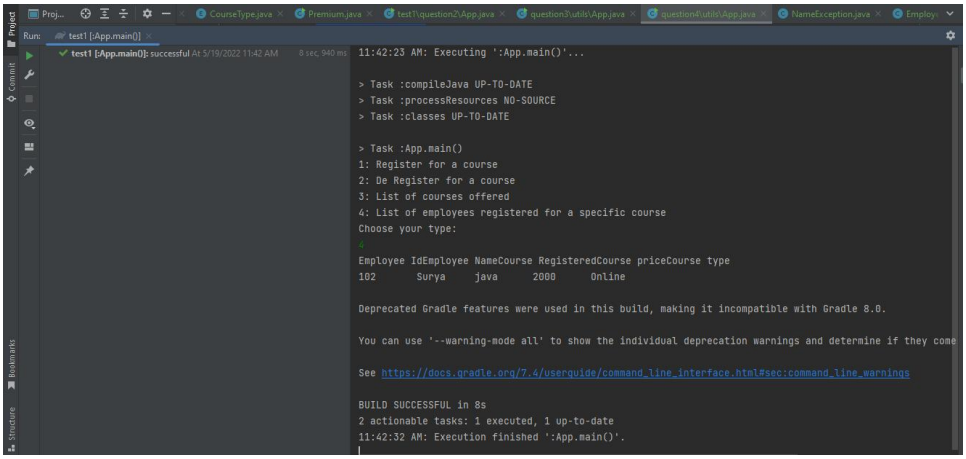
Outputs: -



```
test1 [:App.main()]: successful At 5/19/2022 11:41 AM  24 sec, 940 ms

11:41:27 AM: Executing ':App.main()'...

> Task :compileJava UP-TO-DATE
> Task :processResources NO-SOURCE
> Task :classes UP-TO-DATE

> Task :App.main()
1: Register for a course
2: De Register for a course
3: List of courses offered
4: List of employees registered for a specific course
Choose your type:
1
Enter number of employee registering for course
1
Enter Employee id
102
Enter Employee name
Surya
Enter course name
java
Added a record

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come
```



```
test1 [:App.main()]: successful At 5/19/2022 11:40 AM  29 sec, 62 ms

11:40:28 AM: Executing ':App.main()'...

> Task :compileJava UP-TO-DATE
> Task :processResources NO-SOURCE
> Task :classes UP-TO-DATE

> Task :App.main()
1: Register for a course
2: De Register for a course
3: List of courses offered
4: List of employees registered for a specific course
Choose your type:
3
Courses Offered by company are
java
python
node
react
MySQL
MongoDb
AWS
```


Proj...
CourseType.java
Premium.java
test1\question2\App.java
question3\utils\App.java
question4\utils\App.java
NameException.java
Employ
Run:
test1 [:App.main()]
test1 [:App.main()]: successful At 5/19/2022 11:42 AM
8 sec, 940 ms
11:42:23 AM: Executing ':App.main()'...
> Task :compileJava UP-TO-DATE
> Task :processResources NO-SOURCE
> Task :classes UP-TO-DATE
> Task :App.main()
1: Register for a course
2: De Register for a course
3: List of courses offered
4: List of employees registered for a specific course
Choose your type:
4
Employee IdEmployee NameCourse RegisteredCourse priceCourse type
102 Surya java 2000 Online
Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.
You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come
See https://docs.gradle.org/7.4/userguide/command_line_interface.html#sec:command_line_warnings
BUILD SUCCESSFUL in 8s
2 actionable tasks: 1 executed, 1 up-to-date
11:42:32 AM: Execution finished ':App.main()'.
Project
Commit
Bookmarks
Structure

Enter Employee name
Surya
Enter course name
java
Employee details: []
Successfully de registered the employee
Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.
You can use '--warning-mode all' to show the individual deprecation warnings and determine if they com
See https://docs.gradle.org/7.4/userguide/command_line_interface.html#sec:command_line_warnings
BUILD SUCCESSFUL in 15s
2 actionable tasks: 1 executed, 1 up-to-date
11:43:33 AM: Execution finished ':App.main()'.