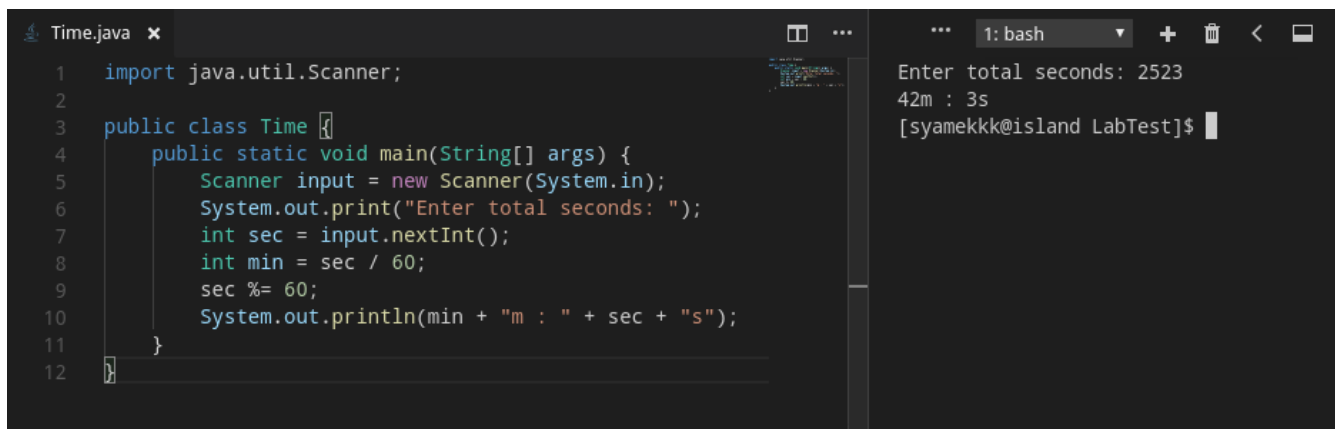


CSC 1103 Section 1 & 6 OOP

Lab Test 1

Name: Muhammad Syahmi Fathimi bin Ahmad Fauzi
Matric No.: 1715845

1. (Minutes and Second)



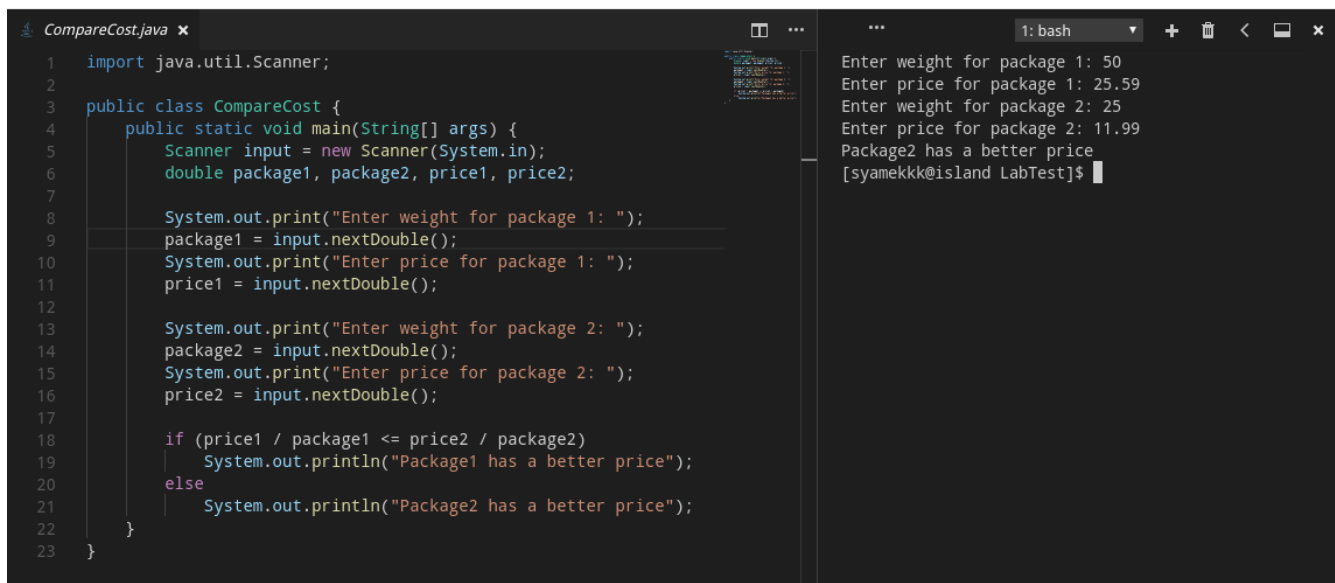
The screenshot shows an IDE with a file named `Time.java` open. The code is as follows:

```
1 import java.util.Scanner;
2
3 public class Time {
4     public static void main(String[] args) {
5         Scanner input = new Scanner(System.in);
6         System.out.print("Enter total seconds: ");
7         int sec = input.nextInt();
8         int min = sec / 60;
9         sec %= 60;
10        System.out.println(min + "m : " + sec + "s");
11    }
12 }
```

The output window on the right shows the execution results:

```
1: bash
Enter total seconds: 2523
42m : 3s
[syamekkk@island LabTest]$
```

2. (Compare cost)



The screenshot shows an IDE with a file named `CompareCost.java` open. The code is as follows:

```
1 import java.util.Scanner;
2
3 public class CompareCost {
4     public static void main(String[] args) {
5         Scanner input = new Scanner(System.in);
6         double package1, package2, price1, price2;
7
8         System.out.print("Enter weight for package 1: ");
9         package1 = input.nextDouble();
10        System.out.print("Enter price for package 1: ");
11        price1 = input.nextDouble();
12
13        System.out.print("Enter weight for package 2: ");
14        package2 = input.nextDouble();
15        System.out.print("Enter price for package 2: ");
16        price2 = input.nextDouble();
17
18        if (price1 / package1 <= price2 / package2)
19            System.out.println("Package1 has a better price");
20        else
21            System.out.println("Package2 has a better price");
22    }
23 }
```

The output window on the right shows the execution results:

```
1: bash
Enter weight for package 1: 50
Enter price for package 1: 25.59
Enter weight for package 2: 25
Enter price for package 2: 11.99
Package2 has a better price
[syamekkk@island LabTest]$
```

3. (Determine gender)

```
DetermineGender.java x
1 import java.util.Scanner;
2
3 public class DetermineGender {
4     public static void main(String[] args) {
5         Scanner input = new Scanner(System.in);
6         System.out.print("Enter the last 4 digits of your IC: ");
7         int ic = input.nextInt();
8
9         if (ic % 2 == 0)
10             System.out.println("Female");
11         else
12             System.out.println("Male");
13     }
14 }
```

```
TERMINAL
1: bash
[syamekkk@island LabTest]$ javac DetermineGender.java &&
java DetermineGender
Enter the last 4 digits of your IC: 6618
Female
[syamekkk@island LabTest]$ javac DetermineGender.java &&
java DetermineGender
Enter the last 4 digits of your IC: 4355
Male
[syamekkk@island LabTest]$
```

4. (Parking rate)

```
Time.java x ParkingRate.java x
1 import java.util.Scanner;
2
3 public class ParkingRate {
4     public static void main(String[] args) {
5         Scanner input = new Scanner(System.in);
6         System.out.println("Type of Vehicle:\n" +
7             "\t1. Motorcycle\n" +
8             "\t2. Car\n" +
9             "\t3. Van\n" +
10            "\t4. Bus\n" +
11            "\t5. Lorry");
12         System.out.print("Enter type of vehicle (1-5): ");
13         int opt = input.nextInt();
14         System.out.print("Enter duration in hour: ");
15         int duration = input.nextInt();
16
17         double rate = 0.0;
18         switch (opt) {
19             case 1: rate = 1.00; break;
20             case 2: rate = 5.00; break;
21             case 3: rate = 6.00; break;
22             case 4: rate = 8.00; break;
23             case 5: rate = 10.00; break;
24             default: System.out.println("Invalid type of vehicle");
25         }
26
27         if (opt == 1 || opt == 2 || opt == 3 || opt == 4 || opt == 5) {
28             double totalRate = duration * rate;
29             System.out.printf("Total Rate: RM %.2f\n", totalRate);
30         }
31     }
32 }
```

```
TERMINAL
1: bash
Type of Vehicle:
1. Motorcycle
2. Car
3. Van
4. Bus
5. Lorry
Enter type of vehicle (1-5): 2
Enter duration in hour: 65
Total Rate: RM 325.00
[syamekkk@island LabTest]$
```