Section A:

Table 1 True/false and Explanation

| No | Statement | Answer | Explanation |
|---|---|---|---|
| **1** | *ArrayList* belongs to the *java.util* package | True | *ArrayList* is belong to the *java.util* package as *java.util.ArrayList* |
| **2** | You cannot use multiple Scanner objects in a program | False | You can use the multiple Scanner object in a program because the Scanner is use to collect the data from user |
| **3** | A constructor can be overloaded in Java | False | method can be overloaded not constructor |
| **4** | *equalsIgnoreCase()* compares strings while ignoring case | True | *equalIgnoreCase()* while ignore the uppercase or lowercase just focus on the strings |
| **5** | Variables declared inside a method are called global variables | False | Variables declared inside a method are not a global variables because it only can use in the method |
| **6** | Classes should start with a lowercase letter in Java | False | Classes should start with uppercase not lowercase |
| **7** | *System.out.println()* adds a newline after printing | True | *System.out.println()* while automatically adds a newline and move to that line after printing |
| **8** | Searching through an *ArrayList* requires a loop | False | |
| **9** | Java allows calling non-static methods from static context directly | False | |
| **10** | *Public static void main* is the entry point of a Java app | False | *Public static void main* is the entry point of a Java System not app |

Section B:

Table 2 Question 1

| No | Error | Explanation | Correction |
|---|---|---|---|
| **1** | String time , String note; | Cannot declared multiple datatype in one line | String time, note; |
| **2** | Public void Dairy (String t, String n)<br>{<br>Time = t;<br>Note = note; | In constructor must use "this" to declared and variable name error and don't have ( } ) to close the public void | Public void Dairy (String time, String note)<br>{<br>this.time = time;<br>this.note = note;<br>} |
| **3** | System.out.println("Reminder at" + time – "); | Time – " should be time only | System.out.println("Reminder at" + time); |
| **4** | Public void show { | Missing } | Public void show { } |
| **5** | Public static void main() {} | Missing (String [] args) | Public static void main(String [] args) |
| **6** | Dairy d = new Dairy("10AM" , "Drink water) | Missing " in ("Drink water) and missing ; | Dairy d = new Dairy("10AM" , "Drink water"); |
| **7** | Dairy e = new Dairy("12AM" + "Lunch) | Missing " in ("Lunch) and missing ; | Dairy e = new ("12AM" + "Lunch"); |
| **8** | q.show(); | Should be d.show() | d.show() |

Table 3 Question 2

| **i** | **i<=5** | **Count += i** | **If (i % 2 == 0)** | **Print (i + "-")** | **I++** | **Final output** |
|---|---|---|---|---|---|---|
| **1** | 1<=5, T | Count = 0 +1 =1 | 1%2==0, F | - | I=1+1 =2 | - |
| **2** | 2<=5, T | Count = 1+2 =3 | 2%2==0, T | 2- | I=2+1 =3 | - |
| **3** | 3<=5, T | Count = 3+3 =6 | 3%2==0, F | - | I=3+1 =4 | - |
| **4** | 4<=5, T | Count = 6+4 =10 | 4%2==0, T | 4- | I=4+1 =5 | - |
| **5** | 5<=5, T | Count = 10+5 =15 | 5%2==0, F | - | I=5+1 =6 | - |
| **6** | 6<=5, F | - | - | - | - | Final Count: 15 |

2.2) the values that are printed before final count is 1, 3, 6, 10, 15

2.3) final value for "count" is 15

2.4) The code "if (I % 2 == 0)" is a condition that use to check the value of I %2 == 0 is true or false

Section C:

```java
package final_assessment;
import java.util.*;

public class Reminder {
    String time, water, medicine, exercise;

    public void Reminder(String time, String water, String medicine, String exercise) {
        this.time = time;
        this.water = water;
        this.medicine = medicine;
        this.exercise = exercise;
    }

    public void addReminder() {
        Scanner input = new Scanner(System.in);
        ArrayList<String>StoreReminder;

        System.out.println("Enter the time: ");
        String time = input.nextLine();

        System.out.println("Enter Leter of water: ");
        String water = input.nextLine();

        System.out.println("Enter medicine: ");
        String medicine = input.nextLine();

        System.out.println("Enter exercise: ");
        String exercise = input.nextLine();
    }

    public void viewReminder() {
        System.out.println("time: " + time);
        System.out.println("water: " + water);
        System.out.println("medicine: " + medicine);
        System.out.println("exercise: " + exercise);
    }
```

Figure 1 class reminder

```java
public static void main(String [] args) {
    Reminder r = new Reminder();
    Scanner input = new Scanner(System.in);

    System.out.println("== Main Menu ==");
    System.out.println("1. add Reminder");
    System.out.println("2. View reminder");
    System.out.println("3. Exit");

    while (true) {
        int choice = input.nextInt();
        input.nextLine();

        if(choice == 1) {
            r.addReminder();
        }
        else if (choice == 2) {
            r.viewReminder();
        }
        else {
            System.out.println("Thanks for using Dailt Health Tracker ");
            break;
        }
    }

}
```

Figure 2 Main menu

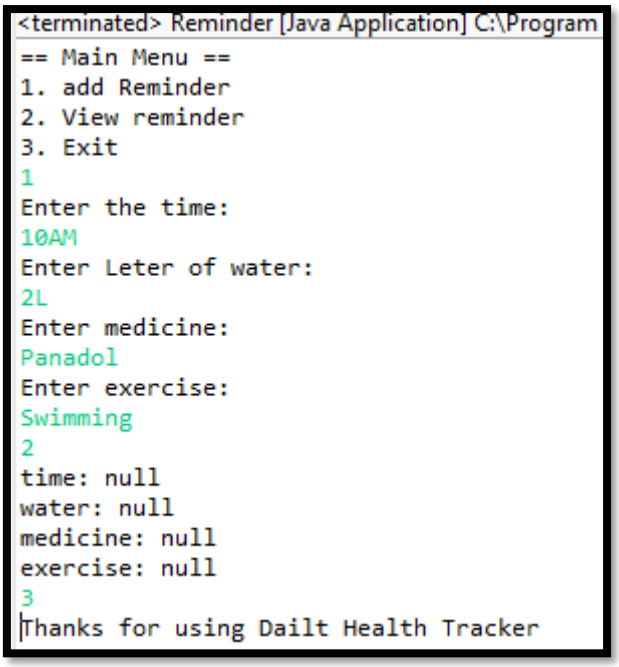


Figure 3 Output