

CS 1073

FR04A

Assignment 6

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I. The source code for Part I (ScreenTimeSummary.java):

```
/**  
 * A class named ScreenTimeSummary, which asks the user questions about the screen time.  
 * Evaluates it and returns the average.  
 * @author Ebrahim Arefi, 3621326  
 */  
  
import java.util.Scanner;  
  
public class ScreenTimeSummary {  
  
    public static void main(String[] args) {  
  
        Scanner sc = new Scanner(System.in);  
  
        System.out.println();  
        System.out.println("-----");  
    };  
    System.out.println("Please enter your desired hours for your target.");  
    double hourslimit = sc.nextDouble();  
  
    System.out.println(  
        "Please enter your screen time in of hours for each day. (Please type a negavtive  
number to end the list.)");  
    double hoursDaily = sc.nextDouble();  
  
    double sum = 0;  
    double hours = 0;  
    double highest = 0;  
    double hoursLess = 0;  
  
    while (hoursDaily >= 0) {  
        hours++;  
        sum += hoursDaily;  
  
        if (hoursDaily < hourslimit) {  
            hoursLess++;  
        }  
  
        if (hoursDaily > highest) {  
            highest = hourslimit;  
        }  
        hoursDaily = sc.nextDouble();  
    }  
    double average = sum / hours;  
  
    System.out.println();  
    System.out.println("-----");  
};  
System.out.println("Screen Time:");  
System.out.println("Number of days below screen time limit: " + (int) hoursLess);
```

```
        System.out.println("Highest screen time hours: " + highest);
        System.out.println("Average screen time: " + average);
        System.out.println("-----");
    });
}

}
```

Part1 Output:

Sample 1:

```
ebi@Anshul-s-A52s as6 % javac ScreenTimeSummary.java
ebi@Anshul-s-A52s as6 % java ScreenTimeSummary
```

```
-----
Please enter your desired hours for your target.
5
Please enter your screen time in of hours for each day. (Please type a negavtive number to end
the list.)
3
7
5
2
9
11
1
-1
```

```
-----
Screen Time:
Number of days below screen time limit: 3
Highest screen time hours: 11.0
Average screen time: 5.428571428571429
```

Sample 2:

```
ebi@Anshul-s-A52s as6 % java ScreenTimeSummary
```

```
-----
Please enter your desired hours for your target.
7
Please enter your screen time in of hours for each day. (Please type a negavtive number to end
the list.)
1
2
3
4
5
-1
```

```
-----
Screen Time:
Number of days below screen time limit: 5
Highest screen time hours: 5.0
Average screen time: 3.0
```

```
-----
```

II. The source code for Part II (ServiceDogAssessment.java)

```
/**  
 * A class named ServiceDogAssessment, which collects information about dogs to evaluate their  
 * eligibility.  
 * @author Ebrahim Arefi, 3621326  
 */  
  
import java.util.Scanner;  
  
public class ServiceDogAssessment {  
    public static void main(String[] args) {  
  
        Scanner sc = new Scanner(System.in);  
  
        System.out.println();  
        System.out.println("-----");  
    };  
  
    System.out.print("Enter the age of the dog in months: ");  
    int dogAge = sc.nextInt();  
    while (dogAge < 0) {  
        System.out.print("Enter the age of the dog in months: ");  
        dogAge = sc.nextInt();  
    }  
  
    if (dogAge < 6 || dogAge > 12) {  
        System.out.println("Sorry, the dog is not approved for service dog training.");  
        return;  
    }  
  
    System.out.print("Does the dog have a valid rabies vaccine (yes/no): ");  
    String dogVac = sc.next().toLowerCase();  
    while (!(dogVac.equals("yes") || dogVac.equals("no"))) {  
        System.out.print("Enter yes or no: ");  
        dogVac = sc.next().toLowerCase();  
    }  
  
    if (dogVac.equals("no")) {  
        System.out.println("Sorry, the dog is not approved for service dog training.");  
        return;  
    }  
  
    System.out.print("Enter the number of training hours: ");  
    int hoursTraining = sc.nextInt();  
    while (hoursTraining < 0) {  
        System.out.print("Re-enter hours (must be a non-negative number): ");  
        hoursTraining = sc.nextInt();  
    }  
  
    System.out.print("Enter their temperament assessment score: ");  
    int temperament = sc.nextInt();  
    while (temperament < 1 || temperament > 20) {  
        System.out.print("Re-enter temperament score (must 1-20 inclusive): ");  
        temperament = sc.nextInt();  
    }  
  
    System.out.print("Enter their socialization assessment score: ");  
    int socialization = sc.nextInt();
```

```
        while (socialization < 1 || socialization > 10) {
            System.out.print("Re-enter socialization assessment score (must 1-10 inclusive): ");
            socialization = sc.nextInt();
        }

        int trainingPoints;
        if (hoursTraining < 10) {
            trainingPoints = 0;
        } else if (hoursTraining < 20) {
            trainingPoints = 5;
        } else {
            trainingPoints = 10;
        }

        int totalPoints = trainingPoints + temperament + socialization;

        if (totalPoints < 10) {
            System.out.println("Your dog is not recommended for service dog training.");
        } else if (totalPoints < 25) {
            System.out.println("Your dog is recommended for service dog training.");
        } else {
            System.out.println("Your dog is highly recommended for service dog training.");
        }

        System.out.println("-----");
    };
}
```

Part2 Output:

```
ebi@Anshul-s-A52s as6 % javac ServiceDogAssessment.java
ebi@Anshul-s-A52s as6 % java ServiceDogAssessment
```

```
-----  
Enter the age of the dog in months: -2  
Enter the age of the dog in months: 4  
Sorry, the dog is not approved for service dog training.  
ebi@Anshul-s-A52s as6 % java ServiceDogAssessment
```

```
-----  
Enter the age of the dog in months: 6  
Does the dog have a valid rabies vaccine (yes/no): n  
Enter yes or no: NO  
Sorry, the dog is not approved for service dog training.  
ebi@Anshul-s-A52s as6 % java ServiceDogAssessment
```

```
-----  
Enter the age of the dog in months: 9  
Does the dog have a valid rabies vaccine (yes/no): yes  
Enter the number of training hours: -3  
Re-enter hours (must be a non-negative number): 10  
Enter their temperament assessment score: 21  
Re-enter temperament score (must 1-20 inclusive): 15  
Enter their socialization assessment score: 15  
Re-enter socialization assessment score (must 1-10 inclusive): 10  
Your dog is highly recommended for service dog training.
```

```
-----  
ebi@Anshul-s-A52s as6 % java ServiceDogAssessment
```

```
-----  
Enter the age of the dog in months: 12  
Does the dog have a valid rabies vaccine (yes/no): yes  
Enter the number of training hours: 13  
Enter their temperament assessment score: 5  
Enter their socialization assessment score: 2  
Your dog is recommended for service dog training.
```

```
-----  
ebi@Anshul-s-A52s as6 % 10  
zsh: command not found: 10  
ebi@Anshul-s-A52s as6 % 10  
zsh: command not found: 10  
ebi@Anshul-s-A52s as6 % java ServiceDogAssessment
```

```
-----  
Enter the age of the dog in months: 10  
Does the dog have a valid rabies vaccine (yes/no): y  
Enter yes or no: yes  
Enter the number of training hours: 5  
Enter their temperament assessment score: -3  
Re-enter temperament score (must 1-20 inclusive): 0  
Re-enter temperament score (must 1-20 inclusive): 4  
Enter their socialization assessment score: 5  
Your dog is not recommended for service dog training.
```

```
-----  
ebi@Anshul-s-A52s as6 %
```