

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 negative
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
-----

```

```

ebi@Anshul-s-A52s as6 %

```

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: N0
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 %
```