

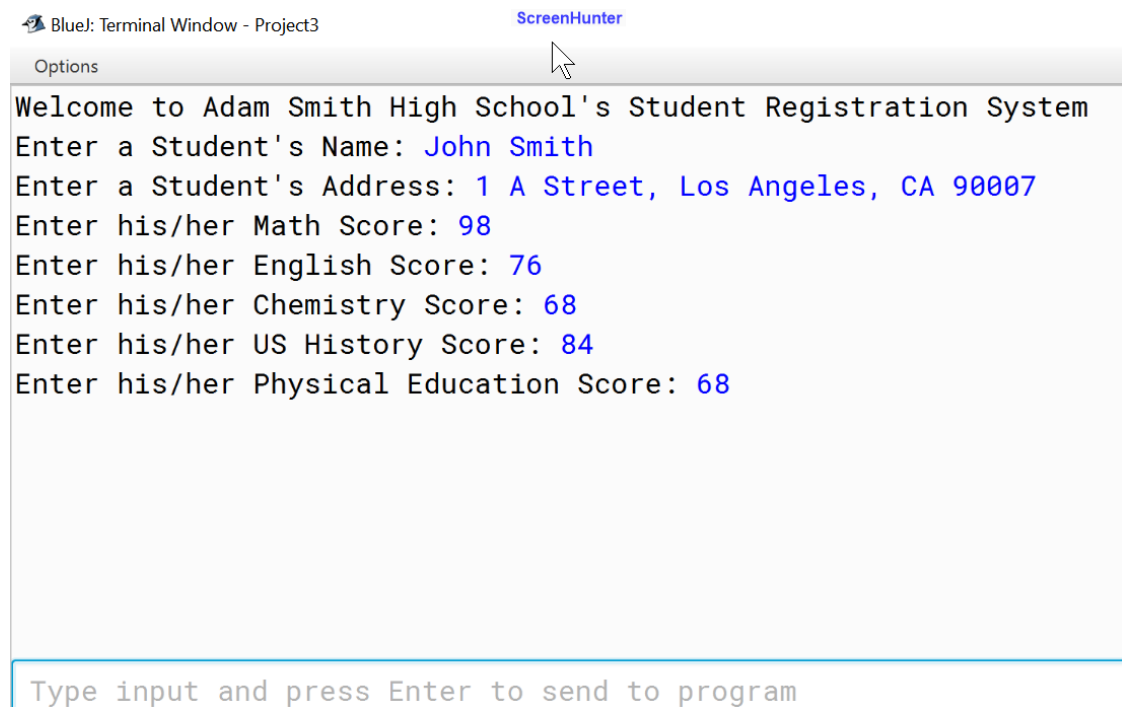
CS 21 Introduction to Java Programming:

Project 3:

1. Please design a student registration system for **Adam Smith** High School.

Create a class named **Student**

The input page is like the following (Input from Terminal (console System.in)):



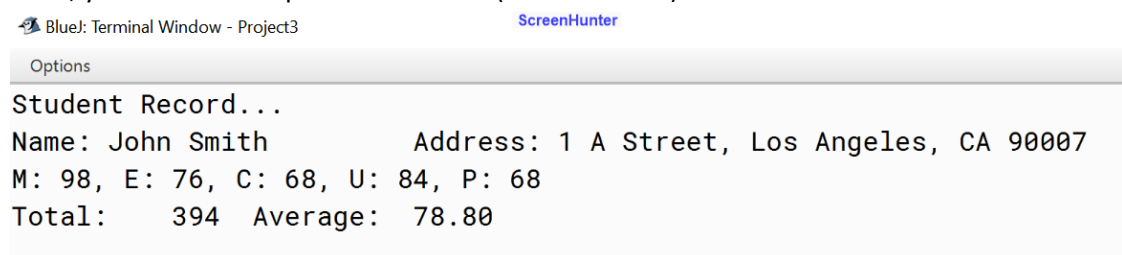
The screenshot shows a terminal window titled "BlueJ: Terminal Window - Project3" with a "ScreenHunter" watermark. The terminal displays the following text:

```
Options
Welcome to Adam Smith High School's Student Registration System
Enter a Student's Name: John Smith
Enter a Student's Address: 1 A Street, Los Angeles, CA 90007
Enter his/her Math Score: 98
Enter his/her English Score: 76
Enter his/her Chemistry Score: 68
Enter his/her US History Score: 84
Enter his/her Physical Education Score: 68

Type input and press Enter to send to program
```

Calculate the total score for the semester and the average score.

Then, you should have print out like this (On the screen):



The screenshot shows a terminal window titled "BlueJ: Terminal Window - Project3" with a "ScreenHunter" watermark. The terminal displays the following text:

```
Options
Student Record...
Name: John Smith          Address: 1 A Street, Los Angeles, CA 90007
M: 98, E: 76, C: 68, U: 84, P: 68
Total:    394  Average:  78.80
```

(Part 2 on the next page. Read information from file and output to a file.)

2. Now, Create a class named StudentFile (StudentFile.java)
First, you need to import the following modules:

```
import java.util.Scanner;  
import java.io.File;  
import java.io.PrintWriter;
```

Don't forget to arrange the program with throws Exception for file input and output.

```
public class StudentFile  
{  
    public static void main(String[] args) throws Exception {  
        System.out.print("\f");  
        File f = new File("studentin.txt");  
        Scanner in = new Scanner(f); |
```

Then, read in the studentin.txt file with the following data:

```
Tom Cat  
2 B Street, Los Angeles, CA 90007  
76 84 93 60 54
```

Note: In this program, you read data from file, so there is no need to print any prompt message to ask user for input.

Then, output the result to both screen and the studentout.txt file.
The output should be similar to part 1.