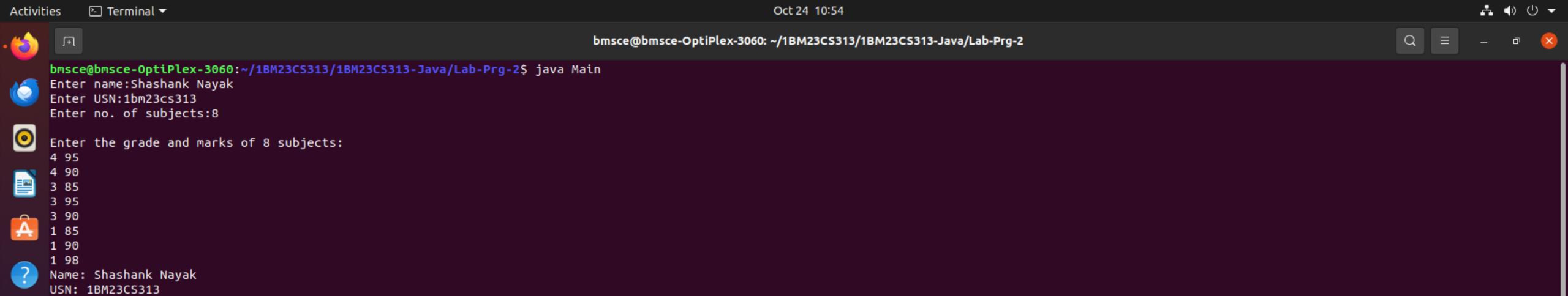
```
import java.util.Scanner;
public class Student{
        private String name;
        private final String USN;
        private int[] marks, credits, grades;
        private double SGPA;
        public Student(String name, String USN, int[] marks, int[] credits){
            this.name=name;
            this.USN=USN;
            this.marks=marks;
            this.credits=credits;
            this.grades=new int[marks.length];
        }
        public void setGrades(){
            for(int i=0;i<marks.length;i++){</pre>
                if(marks[i]>=90 && marks[i]<=100){
                    grades[i]=10;
                else if(marks[i]>=80 && marks[i]<90){
                    grades[i]=9;
                else if(marks[i]>=70 && marks[i]<80){
                    grades[i]=8;
                else if(marks[i]>=60 && marks[i]<70){
                    grades[i]=7;
                else if(marks[i]>=50 && marks[i]<60){
                    grades[i]=6;
                }
                else
                    grades[i]=0;
            }
        public void setSGPA(){
            int creditSum=0;
            int sum=0;
            for(int i=0;i<marks.length;i++) {</pre>
                creditSum+=credits[i];
                sum+=grades[i]*credits[i];
            this.SGPA=(float)sum/creditSum;
        private String makeString(int[] array){
            StringBuffer s=new StringBuffer("");
            for(int ele: array)
                s.append(ele+"\t");
            return s.toString();
        }
        public void display(){
            System.out.println(String.format("Name: %s\nUSN: %s\nMarks: %s\nCredits: %s\nSG
PA: %.2f", name, USN, makeString(marks), makeString(credits), SGPA));
        }
}
class Main{
    public static void main(String args[]){
        Scanner sc=new Scanner(System.in);
```

```
System.out.print("Enter name:");
       String name=sc.nextLine();
       System.out.print("Enter USN:");
       String USN=sc.next().toUpperCase();
       System.out.print("Enter no. of subjects:");
       int n=sc.nextInt();
       int[] marks=new int[n];
       int[] credits=new int[n];
       System.out.println("\nEnter the grade and marks of "+n+" subjects:");
        for(int i=0;i<n;i++){
           credits[i]=sc.nextInt();
            marks[i]=sc.nextInt();
        //Create Student
       Student s=new Student(name, USN, marks, credits);
       s.setGrades();
        s.setSGPA();
       s.display();
       sc.close();
    }
}
```



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 Marks: 95

SGPA: 9.80

- Credits: 4