

(2)

Develop a java program to create a class Student with members USN, name, array credits and an array marks. Include methods to display details and method to calculate SGPA of a student.

```
import java.util.Scanner;
```

```
class Subject
```

```
{
```

```
    int subjectMarks;
```

```
    int credits;
```

```
    int grade;
```

```
}
```

```
class Student
```

```
{
```

```
    Subject subject[];
```

```
    int i;
```

```
    String name;
```

```
    String USN;
```

```
    double SGPA;
```

```
    Scanner s = new Scanner(System.in);
```

```
    Student()
```

```
{
```

```
        subject = new Subject[8];
```

```
        for (i = 0; i < 8; i++)
```

```
            subject[i] = new Subject();
```

```
}
```

```
    void getStudentDetails()
```

```
{
```

```
    System.out.println("Enter name");
```

```
    name = s.next();
```

```
    System.out.println("Enter USN");
```

```
    USN = s.next();
```

```
}
```

(2)

Develop a java program to create a class Student with members USN, name, array Credits and an array marks. Include methods and display details and method to calculate SGPA of a student.

```
import java.util.Scanner;
```

```
class Subject {
```

```
{
```

```
    int subjectMarks;
```

```
    int credits;
```

```
    int grade;
```

```
}
```

```
class Student {
```

```
{
```

```
    Subject subject[];
```

```
    int i;
```

```
    String name;
```

```
    String USN;
```

```
    double SGPA;
```

```
    Scanner s = new Scanner(System.in);
```

```
    Student ()
```

```
{
```

```
        subject = new Subject[8];
```

```
        for (i = 0; i < 8; i++)
```

```
            subject[i] = new Subject();
```

```
}
```

```
    void getStudentDetails ()
```

```
{
```

```
        System.out.println ("Enter name");
```

```
        name = s.next();
```

```
        System.out.println ("Enter USN");
```

```
        USN = s.next();
```

```
}
```

```
void getMarks ()
```

{

```
    for (i=0; i<8; i++)
```

{

```
        System.out.println ("Enter marks of subject" + (i+1) + ": ");
```

```
        subjet[i].subjectMarks = sc.nextInt();
```

```
        System.out.println ("Enter credits ");
```

```
        subjet[i].subjectCredits = sc.nextInt();
```

```
        subjet[i].grade = (subjet[i].subjectMarks/10);
```

}

```
class main
```

{

```
public static void main (String args[])
```

```
Student s1 = new Student ();
```

```
s1.getStudentDetails ();
```

```
s1.getMarks ();
```

```
s1.comput();
```

```
System.out.println ("Name: " + s1.name);
```

```
System.out.println ("USN: " + s1.usn);
```

```
System.out.println ("SGPA: " + s1.SGPA);
```

}

Output:

Enter name:

Karthik

Enter USN:

IBM22CS232

Enter marks of subject 1

84

Enter credits of subject 1

4

Enter marks of subject 2

87

Enter credits of subject 2

3

Enter marks of subject 3

96

Enter credits of subject 3

3

Enter marks of subject 4

85

Enter credits of subject 4

3

Enter marks of subject 5

92

Enter credits of subject 5

3

Enter marks of subject 6

88

Enter credits of subject 6

2

Enter marks of subject 7

88

Enter credits of subject 7

2

Enter marks of subject 8

95

Enter credits of subject 8

1

Name: Kouruthin

VSN: 1BM22CS232

SNPA: 9.318181818181818

Name: SaiKouruthin CR

VSN: 1BM22CS232

QW
12.22
19.