ข้อ1

```
        public SMS(String number) {
            this.number = number;
        }
        public String getnumber() {
            return this.number;
        }

        public static int[] Digit = new int[10];
        public void readAs() {
            String[] splitboard = this.number.split(" ");
            String word = " ";
            String Sum = " ";
            for(int i = 0;i < number.length();i++) {
                if(Integer.parseInt(splitboard[i]) == 1) {word +="One"; Digit[1]++;}
                else if(Integer.parseInt(splitboard[i]) == 2) {word +="Two"; Digit[2]++;}
                else if(Integer.parseInt(splitboard[i]) == 3) {word +="Three"; Digit[3]++;}
                else if(Integer.parseInt(splitboard[i]) == 4) {word +="Four"; Digit[4]++;}
                else if(Integer.parseInt(splitboard[i]) == 5) {word +="Five"; Digit[5]++;}
                else if(Integer.parseInt(splitboard[i]) == 6) {word +="Six"; Digit[6]++;}
                else if(Integer.parseInt(splitboard[i]) == 7) {word +="Seven"; Digit[7]++;}
                else if(Integer.parseInt(splitboard[i]) == 8) {word +="Eight"; Digit[8]++;}
                else if(Integer.parseInt(splitboard[i]) == 9) {word +="Nine"; Digit[9]++;}
                else{word += "Zero";Digit[0]++;}
            }
            Sum += word;
            System.out.println("Read as : "+ Sum);
    }
        public static void printDigit() {
            String[] number = {"Zero","One","Two","Three","Four","Five","Six","Seven","Eight","Nine"};
            System.out.println("Digit Summary");
            for(int i = 0;i < Digit.length; i++) {
                if(Digit[i] != 0) {
                    System.out.print(number[i] + " :  ");
                    for(int j = 0 ; j < Digit[i]; j++) {
                        System.out.print("*");
                    }
                    System.out.println("");
                }
                else continue;
```

```
import java.util.Scanner;

public class SmsDemoArray {

    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.print("Enter number of SMS : ");
        int n = input.nextInt();
        SMS[] number = new SMS[n];
        for(int i = 0;i < n ; i++) {
            System.out.print(i+1 + "SMS Number : ");
            number[i] = new SMS(input.next());
        }
        System.out.println("=========================");
        for(int i = 0;i < n; i++) {
            System.out.println("SMS Number" + (i+1) +" : ");
            number[i].readAs();
        }
        System.out.println("============================");
        SMS.printDigit();
        System.out.println("BYE BYE");
    }
}
```

ข้อ2 ยังไม่เสร็จครับ ยังมี ERRORอยู่ครับ (ทำไม่ทันครับ)

```java
package lab7;

public class classScore {
    int Iad,attend,mid,fi_mal;
    char grade;
    public classScore(int I,int a,int m,int f) {
        this.Iad = I;
        this.attend = a;
        this.mid = m;
        this.fi_mal = f;
    }
    public void setgrade() {
        int setgrade = this.Iad + this.attend + this.mid + this.fi_mal;
        if(setgrade >= 80 ) {
            this.grade = 'A';
        }
        else if (setgrade >= 70) {
            this.grade = 'B';
        }
        else if (setgrade >= 60) {
            this.grade = 'C';
        }
        else if (setgrade >= 50) {
            this.grade = 'D';
        }
        else this.grade = 'F';
}
public String toString() {
    int sumgrade = 0;
    sumgrade = this.Iad + this.attend + this.mid + this.fi_mal;
    String ch = "";
    ch += this.Iad + "\t\t" + this.attend + "\t\t" + this.mid + "\t\t" + this.fi_mal + "\t\t";
    return ch;
}
}
```

```java

public class DisplayGradeArray {
    public static void Display(Score[] score) {
        System.out.println("Display Grade");
        System.out.printf("No. \tLab(30) \t\tAttend(5) \tMid(30) \t\tFinal(35) \tTotal(100)\tGrade\n");
        for(int i=0;i<score.length; i++) {
            score[i].setGrade();
            System.out.print(i+1 + "\t "+score[i].toString());
            System.out.println("");
        }
    }
    public static int[] calGradeSummary(Score[] score) {
        int[] setgrade = new int[score.length];
        for(int i=0 ;i<score.length; i++) {
            if(score[i].grade == 'A') setgrade[0]++;
            else if(score[i].grade == 'B') setgrade [1]++;
            else if(score[i].grade == 'C') setgrade [2] ++;
            else if(score[i].grade == 'D') setgrade [3] ++;
            else setgrade [4]++;
    }
    return setgrade;
    }
    public static void displayGradeSummary(int[] freq) {
        String[] ch = { "A","8" ,"c","0","F"};
        System.out.println("Grade Summary");
        for(int i ;i< freq.length; i++) {
            if(freq[i] !=0 ) {
                System.out.print(ch[i]+ "\t");
                for(int j = 0; j < freq[i] ; j++) {
            }
        System.out.print("");
            }
        System.out.println("");
        }
        else continue;
    public static void main(String[] args) {

```

3.

```java
package lab7;

public class Course {

    String courseID,grade;
    int unit;
    public Course() {

    }
    public Course(String id, int u, String g) {
        courseID =id;
        unit =u;
        grade =g;
    }

    public String getGrade() {
        return grade;
    }

    public int getUnit() {
        return unit;
    }

    public String toString() {
        String mix ="";
        mix += ""+this.courseID+""+this.unit+""+this.grade;
        return mix;
    }

}
```

```java
package lab7;
import java.util.Scanner;

public class GPA {

    public static void main(String[] args) {
        Scanner sn = new Scanner(System.in);
        Course[] mixandmash = new Course[7];
        int i;
        for(i =0; i <mixandmash.length; i++) {
            System.out.print("Enter information of course no. "+(i+1)+": ");
            String courseID =sn.next();
            int unit = sn.nextInt();
            String grade = sn.next();
            mixandmash[i] = new Course(courseID,unit,grade);
        }
        pprint(mixandmash);
        findGpa(mixandmash);
    }

    public static void pprint(Course[] mixandmash) {
        System.out.println("You enroll 7 coures: ");
        System.out.print("CourseID      Unit     Grade\n");
        for(int i=0;i <mixandmash.length; i++)
            System.out.printf("%s      %d      %s\n",mixandmash[i].courseID,mixandmash[i].unit,mi
    }

    public static void findGpa(Course[] mixandmash) {
        double n, gpa =0.0, sumG =0.0, unit, sumU =0.0;
        for (int i=0;i <mixandmash.length; i++) {
            if (mixandmash[i].getGrade().equals("A"))
                n =4.0;
            else if (mixandmash[i].getGrade().equals("B+"))
                n =3.5;
            else if (mixandmash[i].getGrade().equals("B"))
                n =3.0;
            else if (mixandmash[i].getGrade().equals("C+"))
                n =2.5;
```

```
<terminated> GPA [Java Application] D:\T2\eclipse\plugins\org.eclip
Enter information of course no. 1: GEN60-115 2 W
Enter information of course no. 2: MTA60-101 2 C+
Enter information of course no. 3: SWE60-204 3 C
Enter information of course no. 4: SWE60-211 4 D
Enter information of course no. 5: SWE60-212 3 C+
Enter information of course no. 6: SWE60-222 2 F
Enter information of course no. 7: SWE60-231 3 F
You enroll 7 coures:
CourseID      Unit     Grade
GEN60-115      2      W
MTA60-101      2      C+
SWE60-204      3      C
SWE60-211      4      D
SWE60-212      3      C+
SWE60-222      2      F
SWE60-231      3      F

GPA = 1.32
```

```
21      public static void pprint(Course[] mixandmash) {
22          System.out.println("You enroll 7 coures: ");
23          System.out.print("CourseID      Unit     Grade\n");
24          for(int i=0;i <mixandmash.length; i++)
25              System.out.printf("%s      %d      %s\n",mixandmash[i].courseID,mixandmash[i].u
26      }
27
28      public static void findGpa(Course[] mixandmash) {
29          double n, gpa =0.0, sumG =0.0, unit, sumU =0.0;
30          for (int i=0;i <mixandmash.length; i++) {
31              if (mixandmash[i].getGrade().equals("A"))
32                  n =4.0;
33              else if (mixandmash[i].getGrade().equals("B+"))
34                  n =3.5;
35              else if (mixandmash[i].getGrade().equals("B"))
36                  n =3.0;
37              else if (mixandmash[i].getGrade().equals("C+"))
38                  n =2.5;
39              else if (mixandmash[i].getGrade().equals("C"))
40                  n =2.0;
41              else if (mixandmash[i].getGrade().equals("D+"))
42                  n =1.5;
43              else if (mixandmash[i].getGrade().equals("D"))
44                  n =1.0;
45              else if (mixandmash[i].getGrade().equals("F"))
46                  n =0;
47              else
48                  continue;
49              unit = mixandmash[i].getUnit();
50              sumG = sumG +(n*unit);
51              sumU = sumU +mixandmash[i].getUnit();
52          }
53          gpa =sumG/sumU;
54          System.out.printf("\nGPA = %.2f",gpa);
55      }
56
```