

GymClass.java

```
import java.util.Scanner;

public class GymClass{

    private String title;
    private String coach;
    private int capacity;
    private String day;
    private String[] traineesID;
    public static int num = 0;

    //constructor:
    public GymClass (String t, String c, int cap, String d){
        title = t;
        coach = c;
        capacity = cap;
        traineesID = new String[cap];
        switch(d.toLowerCase()){
            case "sunday": case "monday": case "tuesday": case "wednesday": case "thursday": case
"saturday":
                day = d;
                break;
            case "friday": //if the user enters friday day will = wednesday instead
                day = "Wednesday";
        }
    }

    //getters:
    //setters:

    //methods:
    public boolean addTrainee(String id){
        switch(Character.toUpperCase(id.charAt(0))){
            case 'S': case 'G': case 'V': //validating if the id starts with S,G,V
                if(Character.isDigit(id.charAt(2)) && Character.isDigit(id.charAt(3)) &&
Character.isDigit(id.charAt(4))){ //validating if XXX are actually digits
                    if(!isFull()){ //validating if the array is NOT full
                        traineesID[num] = id;
                        num++;
                        return true;
                    }
                }
            }
        return false;
    }

    public int checkEnrollment(String id){
        for(int i = 0; i < num; i++){
            if(traineesID[i].equals(id)){
                return i;
            }
        }
        return -1;
    }

    public void display(){
        System.out.printf("Class: %30s\nCoach: %-35s\n", title, coach);
        if(isFull()) System.out.println("This class is full");
        else System.out.println("You can book this class");
    }
}
```

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```
public boolean isFull(){
    if(capacity == num) //array is full when num = array's length which is capacity
        return true;
    return false;
}

public double calculateIncome(){
    double total = 0;
    for(int i = 0; i < num; i++){
        if(Character.toUpperCase(traineesID[i].charAt(0)) == 'S')
            total += 100;
        if(Character.toUpperCase(traineesID[i].charAt(0)) == 'G')
            total += 120;
        if(Character.toUpperCase(traineesID[i].charAt(0)) == 'V')
            total += 170;
    }
    return total;
}
}
```