Dt : 30/8/2022

Assignment:(Solution with final updation)

Update above program by displaying the result as "Fail" when

any Subject marks entered in b/w 0 to 34.

```
import java.util.Scanner;
class CheckBranch //SubClass
{
        //Java13 version switch statement
        boolean verify(String br)
        {
           return switch(br)
                {
                        case "CSE" : yield true;
                        case "ECE" : yield true;
                        case "EEE" : yield true;
                        default : yield false;
                };
        }
}
class TotalMarks //SubClass
{
        int add(int s1,int s2,int s3,int s4,int s5,int s6)
        {
                return s1+s2+s3+s4+s5+s6;
```

```
        }
}
class Percentage //SubClass
{
        float calculate(int totMarks)
        {
                return (float)totMarks/6;//TypeCasting
        }
}
class StudentResult //SubClass
{
        String generate(float per,boolean p)
        {
                if(p)
                {
                        return "Fail";
                }
                else if(per>=70 && per<=100)
                {
                        return "Distinction";
                }
                else if(per>=60 && per<70)
                {
                        return "FirstClass";
```

```
                }
                else if(per>=50 && per<60)
                {
                        return "SecondClass";
                }
                else if(per>=35 && per<50)
                {
                        return "ThirdClass";
                }
                else
                {
                        return "Fail";
                }
        }
}
class DemoMethods7 //MainClass
{
        public static void main(String[] args)
        {
                Scanner s = new Scanner(System.in);
                System.out.println("Enter the RollNo:");
                String rollNo = s.nextLine();
      int len = rollNo.length();
                if(len==10)
```

```
{
        System.out.println("Enter the Stu_name:");
        String name = s.nextLine();
        System.out.println("Enter the branch(CSE/ECE/EEE):");
        String br = s.nextLine();
        CheckBranch cb = new CheckBranch();
        boolean k = cb.verify(br);
        if(k)
        {
                System.out.println("Enter the marks of Sub-1:");
      int sub1 = s.nextInt();
 System.out.println("Enter the marks of Sub-2:");
      int sub2 = s.nextInt();
 System.out.println("Enter the marks of Sub-3:");
      int sub3 = s.nextInt();
 System.out.println("Enter the marks of Sub-4:");
      int sub4 = s.nextInt();
 System.out.println("Enter the marks of Sub-5:");
      int sub5 = s.nextInt();
 System.out.println("Enter the marks of Sub-6:");
     int sub6 = s.nextInt();
         boolean p=false;
if((sub1>=0 && sub1<=100) && (sub2>=0 && sub2<=100) &&
        (sub3>=0 && sub3<=100) && (sub4>=0 && sub4<=100) &&
```

```
        (sub5>=0 && sub5<=100) && (sub6>=0 && sub6<=100))
{
                if(sub1<=34 || sub2<=34 || sub3<=34 ||
                        sub4<=34 || sub5<=34 || sub6<=34)
                {
                        p=true;
                }//end of if
        TotalMarks tm = new TotalMarks();
        int tMarks = tm.add(sub1,sub2,sub3,sub4,sub5,sub6);
        Percentage pr = new Percentage();
        float per = pr.calculate(tMarks);
        StudentResult sr = new StudentResult();
        String result = sr.generate(per,p);
        System.out.println("====Details====");
        System.out.println("RollNo:"+rollNo);
        System.out.println("Name:"+name);
        System.out.println("Branch:"+br);
        System.out.println("TotMarks:"+tMarks);
        System.out.println("Percentage:"+per);
        System.out.println("Result:"+result);
 }//end of if
  else
 {
        System.out.println("Invalid Marks...");
```

```
                }
                    }//end of if
                    else
                    {
                            System.out.println("Invalid branch...");
                    }
                }//end of if
                else
                {
                    System.out.println("Invalid rollNo...");
                }

                    }
}
```

==========

*imp

define switch-case-yield statement?

=>switch-case-yield statement introduced by Java13 version and which returns the result and which is also known as return_type switch.

syntax:

```
return switch(value)
{
```

case 1 : yield result;

case 2 : yield result;

.

case n : yield result;

default : yield default_statement;

};

Note:

=>"default" is manditory in switch-case-yield.

==========