```
Q3. i.
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```
public class Test{
        public static void main(String args[]){
                int num_01 = 2;
                int num_02 = 1;
                if((num_01 >= num_02) && (num_01 < 3)){
                        num_01+=5;
                }
                System.out.println("Value of num_01 is " + num_01);
        }
}
ii.
public class Test{
        public static void main(String args[]){
                int mark = 5;
                String grade = "";
                switch(mark){
                        case 10:
                                grade = "Distinction";
                                break;
                        case 9:
                                grade = "Distinction";
                                break;
                        case 8:
                                grade = "Distinction";
                                break;
                        case 7:
                                grade = "Very Good Pass";
                                break;
                        case 6:
                                grade = "Very Good Pass";
                                break;
                        case 5:
                                grade = "Credit Pass";
                                break;
                        case 4:
                                grade = "Credit Pass";
                                break;
                        case 3:
                                grade = "Ordinary Pass";
                                break;
                        case 2:
```

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grade = "Ordinary Pass";
                                 break;
                         default:
                                 grade = "Failure";
                 }
                System.out.println("Grade is " + grade);
        }
}
iii.
public static int triangularNumber(int n) {
                 int triNum = 0;
                 int i = 1;
                 while(i \le n){
                         triNum = triNum + i;
                         i++;
                 }
                 return triNum;
}
iv.
    a. 4 asterisks(*) will be printed.
    b. 6 asterisks(*) will be printed.
    c. 5 asterisks(*) will be printed.
    d. 4 asterisks(*) will be printed.
    e. 8 asterisks(*) will be printed.
```