



```
1 import java.util.Scanner;
2 class Earthquake {
3     public static void main(String args[]) {
4         Scanner sc = new Scanner(System.in);
5         System.out.println("A.Praveen\n51834643\n1st Q");
6         System.out.println("Enter the magnitude: ");
7         float measurement= sc.nextFloat();
8         try {
9             if(measurement>0 && measurement<=5) {
10                 System.out.println("Not in danger");
11             }
12             else if(measurement>5 && measurement<=12) {
13                 System.out.println("Be careful\ncome out of y");
14             }
15             else if(measurement > 12) {
16                 throw new ArithmeticException("you have to e");
17             }
18             else if(measurement <= 0) {
19                 throw new Exception("Enter greater than 0");
20             }
21         }
22         catch (ArithmeticException ex) {
23             System.exit(0);
24         }
25         catch (Exception e) {
26             System.out.println(e.getMessage());
27         }
28     }
29 }
```



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1st Question

Enter the magnitude:

7

Be careful

come out of your houses

Process finished.

|



Saved

```
1 import java.util.Scanner;
2 public class Palindrome {
3     public static boolean isPalindrome(String s) {
4         if(s.length()==0||s.length()==1) {
5             return true;
6         }
7         if(s.charAt(0)==s.charAt(s.length()-1)) {
8             return isPalindrome(s.substring(1,s.length()-1));
9         }
10        return false;
11    }
12    public static void main(String args[]) {
13        System.out.println("A.Praveen\n51834643\n2nd C");
14        Scanner sc = new Scanner(System.in);
15        System.out.println("enter a string: ");
16        String input = sc.nextLine();
17        if(isPalindrome(input)) {
18            System.out.println(input+" is a palindrome");
19        }
20        else
21            System.out.println(input+" is not a palindrome");
22    }
23 }
```



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2nd Question


enter a string:

Madam

Madam is a palindrome

Process finished.

|

practice.java 

Saved

```
1 public class Pattern {
2     public static void main(String[] args) {
3         System.out.println("A.Praveen\n51834643\n4th
4         for (int i = 1; i <= 5; i++) {
5             for (int j = 1; j <= i; j++) {
6                 if(i==2&&j==2||i==4&&j==4) {
7                     System.out.print(1);
8                 }
9                 else if(j%2 == 0||i==4&&j==3) {
10                    System.out.print("!");
11                }
12                else if (i==5&&j==3) {
13                    System.out.print("@");
14                }
15                else {
16                    System.out.print("1");
17                }
18            }
19            System.out.println();
20        }
21    }
22 }
```



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4th Question

1

11

1!1

1!!1

1!@!1

Process finished.

|



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```
1 import java.util.Scanner;
2 class StringArray {
3     public static void main(String args[]) {
4         Scanner sc = new Scanner(System.in);
5         System.out.println("A.Praveen\n51834643\n5th Qu");
6         System.out.print("enter the size: ");
7         int size = sc.nextInt();
8         String[] arr = new String[size];
9         System.out.println("Enter all strings: ");
10        for(int i=0;i<size;i++) {
11            arr[i] = sc.next();
12        }
13        for(int i=0;i<size;i++) {
14            for(int j=i+1;j<size;j++) {
15                if(arr[i].length()>arr[j].length()) {
16                    String temp=arr[i];
17                    arr[i] = arr[j];
18                    arr[j] = temp;
19                }
20            }
21        }
22        System.out.println("In ascending order");
23        for(int i=0;i<size;i++) {
24            System.out.print(arr[i]+" ");
25        }
26    }
27 }
```



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5th Question

enter the size: 5

Enter all strings:

ushdb

abc

mnop

yz

1

In ascending order

1 yz abc mnop ushdb

Process finished.

|