Problem: Mayra is developing an application related to the banking sector, where she is required to take input like ROI which is in float format, principal which is in INT format, no_of_years in float format. Make sure the exceptions handle individual formats. If input is correct, calculate the total amount to be paid using compound interest.

NOTE: if no_of_years is 2.12 convert it to 3 years(handle in the exception)

Program:

```
package Hare_Krishna;
import java.util.Scanner;
public class Prac_15
{
   public static void main(String[] args)
       Scanner sc = new Scanner(System.in);
       System.out.print("\nEnter ROI : ");
       float roi = sc.nextFloat();
       System.out.print("Enter Principal : ");
       int principle = sc.nextInt();
       System.out.print("Enter No. of Years : ");
       float no = sc.nextFloat();
```

```
try
           if(no = 2.12f)
           {
               throw new ArithmeticException();
           float amount = (float) ((float)principle * (Math.pow((1
+ roi / 100), no)));
           System.out.print("\n\tROI = "+roi);
           System.out.print("\n\tPrincipal = "+principle);
           System.out.print("\n\tn = "+no);
           System.out.print("\n\tAmount = "+amount);
           System.out.println();
       catch (Exception exc)
       {
           roi = 3;
           float amount = (float) ((float)principle * (Math.pow((1
                   roi / 100), no)));
           System.out.print("\n\tR0I = "+roi);
```

```
System.out.print("\n\tPrincipal = "+principle);
System.out.print("\n\tn = "+no);
System.out.print("\n\tAmount = "+amount);
System.out.println();
}
}
```

Output:

```
• • • Hare_Krishna [-/Documents/sem3practicals/OOP/Hare_Krishna] - .../src/Hare_Krishna/Prac_... t 0.0 b/s t 0.0 b/s
ile <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode <u>R</u>efactor <u>B</u>uild R<u>u</u>n <u>T</u>ools <u>G</u>it <u>W</u>indow <u>H</u>elp
                                                                                                                                           Hare_Krishna > src > Hare_Krishna > @ Prac_15 > @ main
   package Hare_Krishna;
                                                                                                                            /usr/lib/jvm/default/bin/java
   > ■.idea
                                                                                                                            -javaagent:/usr/share/idea/lib/idea_rt
                                                                                                                           .jar=33033:/usr/share/idea/bin -Dfile.encoding=UTF-8
                                                                                                                      🗸 🖿 Hare Krishna
                                                                                                                        → /Hare_Krishna/bin/production/Hare_Krishna:/home/yash/
                                                        public class Prac 15
                                                                                                                      m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk8/1.7
        © Арр
                                                                                                                            .10/kotlin-stdlib-jdk8-1.7.10.jar:/home/yash/
        @ arith
                                                             public static void main(String[] args)
                                                                                                                             .m2/repository/org/jetbrains/kotlin/kotlin-stdlib/1.7
                                                                                                                            .10/kotlin-stdlib-1.7.10.jar:/home/yash/
        © Codechef2
                                                                 Scanner sc = new Scanner(System.in);
                                                                                                                             .m2/repository/org/jetbrains/kotlin/kotlin-stdlib-common/1
       > @ constr.iava
                                                                                                                             .7.10/kotlin-stdlib-common-1.7.10.jar:/home/yash/
        demo
                                                                float roi = sc.nextFloat();
                                                                                                                             .m2/repository/org/jetbrains/annotations/13
        ₫ ex1
                                                                System.out.print("Enter Principal : ");
                                                                                                                             .0/annotations-13.0.jar:/home/yash/
                                                                                                                             .m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk7/1.7
                                                                int principle = sc.nextInt();
                                                                 System.out.print("Enter No. of Years : "):
                                                                                                                             .10/kotlin-stdlib-jdk7-1.7.10.jar Hare Krishna.Prac 15
        harekrsna
                                                                                                                            Enter ROI : 6.7
        ◎ IBM 3dot2
        @ pizza
        @ prac_2
                                                                        throw new ArithmeticException();
                                                                                                                               ROI = 6.7
        @ prac 4
                                                                                                                               Principal = 10000
                                                                    float amount = (float) ((float)principle * (Math.
       > g prac 7.java
       >  prac_8.java
                                                                    System.out.print("\n\tPrincipal = "+principle);
                                                                                                                            Process finished with exit code 0
          banks
          @prac_9
                                                                catch (Exception exc)
       > @ Prac 12.iava
                                                                     float amount = (float) ((float)principle * (Math.
                                                                           roi / 100), no)));
                                                                                                                                                               13:1 LF UTF-8 4 spaces 12 main 1
```

