

```

import java.util.*;

class exceptiondemo
{
    void divide(int a)
    {
        try
        {
            int b=38/a;
            System.out.println("RESULT IS :"+b);
        }
        catch(ArithmeticException e)
        {
            System.out.println("exception occured!throwing");
            throw e;
        }
    }
}

class exception
{
    public static void main(String args[])
    {
        Scanner s=new Scanner(System.in);
        System.out.println("DIVISION OF 38\n");
        System.out.print("ENTER THE DIVIDER : ");
        int a= s.nextInt();

        try{
            exceptiondemo obj=new exceptiondemo();
            obj.divide(a);
        }
        catch(ArithmeticException e)
        {
            System.out.println("exception recatched :"+e);
        }
        finally
        {
            System.out.println("\n\nPROGRAM RUNNED\n-----");
        }
    }
}

```

Output :-

DIVISION OF 38

ENTER THE DIVIDER : 0

exception occured!throwing

exception recatched :java.lang.ArithmeticException: / by zero

PROGRAM RUNNED
