Q. Write a program to show the concept of throw and throws in a single program?

import java.util.\*;

class A{

void go() throws ArithmeticException

{ int c = 99/2;

throw new ArithmeticException("no division by zero");

}

}

class Marks{

public static void main(String args[])

{ System.out.println("enter the Marks");

Scanner sc = new Scanner(System.in);

int marks = sc.nextInt();

A a = new A();

try{ a.go();

if(marks>33)

System.out.print("you failed");

else

throw new ArrayIndexOutOfBoundsException("you have passed");

}

catch(ArrayIndexOutOfBoundsException b)

{System.out.println(b.getMessage());}

catch(ArithmeticException c)

{

System.out.println(c.getMessage());

}

}

}