

# Questions on Exceptions

1. Output of following Java program?

```
class Main {  
    public static void main(String args[]) {  
        int x = 0;  
        int y = 10;  
        int z = y/x;  
    }  
}
```

- A) Compiler Error
- B) Compiles and runs fine
- C) Compiles but throws ArithmeticException

```
class Test {  
    public static void main (String[] args) {  
        try {  
            int a = 0;  
            System.out.println ("a = " + a);  
            int b = 20 / a;  
            System.out.println ("b = " + b);  
        } catch(ArithmeticException e) {  
            System.out.println ("Divide by zero error");  
        }  
        finally {  
            System.out.println ("inside the finally block");  
        }  
    }  
}
```

- A) Compiler error
- B) Division by zero error
- C)  $a = 0$ 
  - Divide by zero error
  - inside the finally block
- A) inside finally block

```
class Test {  
    public static void main(String[] args) {  
        try    {  
            int a[]={1, 2, 3, 4};  
            for (int i = 1; i <= 4; i++)  
            {  
                System.out.println ("a[" + i + "]= " + a[i] + "n");  
            }  
        } catch (Exception e) {  
            System.out.println ("error = " + e);  
        }  
        catch (ArrayIndexOutOfBoundsException e) {  
            System.out.println ("ArrayIndexOutOfBoundsException");  
        }  
    }  
}
```

- A) Compiler Error /No output
- B) `ArrayIndexOutOfBoundsException`
- C) Prints 1 2 3 4

# Find out answers for these....

- Can we have more than 1 try block in a Java program?
- Can we have multiple catch blocks on a single try block?
- Can we have nested try blocks?
- Can we have try without catch?
- Can we have try neither with catch nor with finally?
- How many catch blocks at max. a try block has?
- Can we have 2 finally blocks for a try block?
- Can finally exist without try?
- What does finally do in Java?
- Differentiate → try /catch vs finally; class vs try block; try vs catch block
- Can a try block accept parameters?