

Develop a JAVA program to raise a custom exception (user defined exception) for DivisionByZero using try, catch, throw and finally

Save Filename As: CustomException.java

Solution:-

// Custom Exception Class

class DivisionByZeroException extends Exception

{

public DivisionByZeroException (String message) { super (message);

}

}

public class CustomException

{

public static void main (String[] args)

{

int dividend = 10;

int divisor = 0;

try

{

if (divisor == 0)

{

throw new DivisionByZeroException("Cannot divide by zero");

}

int result = dividend / divisor;

System.out.println ("Result: " + result);

}

catch (DivisionByZeroException e)

{

```
System.out.println ("Exception: " + e.getMessage ());  
}  
finally  
{  
    System.out.println ("Finally block executed");  
}  
}  
}
```

Compile As: javac CustomException.java

Run As: java CustomException

Output:

Exception: Cannot divide by zero

Finally block executed

10. Develop a JAVA program to create a package named mypack and import & implement it in a suitable class

Step 1: Create a Package

Create a directory named mypack (or any name you prefer) on your file system. Inside the mypack directory, create a Java file named MyClass.java.

Step 2: Define the Class in the Package. Open MyClass.java and add the following code:

```
package mypack;

public class MyClass
{
    public void display ()
    {
        System.out.println("This is a method from the mypack package.");
    }
}
```

Step 3: Create a Main Program

Create a new Java file (outside the mypack directory) named MainProgram.java and add the following code:

```
import mypack.MyClass;

public class MainProgram
{
    public static void main (String[] args)
    {
        MyClass obj = new MyClass ();
        obj.display ();
    }
}
```

Step 4: Compile and Run

Open a terminal or command prompt and navigate to the directory containing both the mypack directory and MainProgram.java.

Compile both files using the following command:

```
javac mypack/MyClass.java MainProgram.java
```

Run the program with the command:

```
java MainProgram
```

Output:

This is a method from the mypack package.