

## Practical No. 3

**Aim:** a. Write a program to raise built-in exceptions and raise them as per the requirements

**Code:**

```
public class pra3a
{
    public static void main(String[] args)
    {
        try
        {
            int result=divide(10,0);
            System.out.println("Result:"+result);
        }
        catch(ArithmeticException e)
        {
            System.err.println("Error:Division by zero.");
        }
    }
    public static int divide(int a, int b)
    {
        return a/b;
    }
}
```

**Output:**

```
C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>javac pra3a.java

C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>java pra3a
Error:Division by zero.

C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>|
```

### Practical No. 3

**Aim:** b. Write a program to define user defined exceptions and raise them as per the requirements

**Code:**

```
class CustomException extends Exception
{
    public CustomException(String message)
    {
        super(message);
    }
}
public class pra3b
{
    public static void main(String[] args)
    {
        try
        {
            int age=-20;
            if(age<0)
            {
                throw new CustomException("Age cannot be negative.");
            }
            System.out.println("Age:"+age);
        }
        catch(CustomException e)
        {
            System.err.println("Error:"+ e.getMessage());
        }
    }
}
```

**Output:**

```
C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>javac pra3b.java
C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>java pra3b
Error:Age cannot be negative.
C:\Users\Vishwakarma\My work\DgetCollege\Sem 4\JS>
```