Exercise – Exceptions

1. Given the following code, what will be printed?

```java
public class MyOwnException
{
      public static void main(String[] a)
      {
            try
            {
                  MyOwnException.myTest(null);
                  MyOwnException.myTest("Not null");
            }
            catch(MyAppException mae)
            {
                  System.out.println("Inside catch block: "+
                  mae.getMessage());
            }
      }

      static void myTest(String str) throws MyAppException
         {
         if(str == null)
         {
               throw new MyAppException("String val is null");
         }
         }
}

class MyAppException extends Exception
{
      public MyAppException()
      {
      super();
      }

      public MyAppException(String message)
      {
      super(message);
      }
}
```

2. Given the following code, what will be printed?

```java
public class CustomExceptionDemo
```

```java
{
    private HashMap<> products = new HashMap<>();

    public static void main(String args[])
    {
        CustomExceptionDemo t = new CustomExceptionDemo();
        products.put(100, "Coke");
        products.put(101, "KitKat");
        products.put(102, "Bisuits");
        products.put(103, "Toast");
        t.getProduct(1000);
    }

    public String getProduct(int id)
    {
        if (products.get(id) == null)
        {
            throw new NoSuchProductException("No such product exists", id);
        }
        return products.get(id);
    }
}

class NoSuchProductException extends RuntimeException
{
    private int productId;
    public NoSuchProductException()
    {
        super();
    }

    public NoSuchProductException(String message, int productId)
    {
        super(message);
        this.productId = productId;
    }

    public NoSuchProductException(String message, int productId, Throwable
cause)
    {
        super(message, cause);
        this.productId = productId;
    }



    public int getProductId()
    {
        return productId;
    }
}
```