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G3 A

Program 11 Develop programs for implementation of
a)Exception handling
b)User defined exception handling.

CODE: BUILD-IN

```
package Exception_Handling;

public class Sample1{

public static void main(String[] args){

try{

int a=30,b=0,c;
c=a/b;
System.out.println("result = "+c);
}
catch(ArithmeticException e){
System.out.println("Can't divide a number by zero");
}

try{
int num = Integer.parseInt("Minal");
System.out.println(num);
}
catch(NumberFormatException e){
System.out.println("Number Format Exception");
}

try{
int a[] =new int[5];
a[7]=5;
}
catch(ArrayIndexOutOfBoundsException e){
System.out.println("Array index out of bound");
}
}
}
```

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OUTPUT:

```
D:\java>javac -d . Sample1.java

D:\java>java  Exception_Handling.Sample1
Can't divide a number by zero
Number Format Exception
Array index out of bound

D:\java>
```

CODE: USER-DEFINED

```
package Exception_Handling;

class user_defined{

  public static void main(String arg[]){
       try{
           throw new MyException(5);
       }
       catch(Exception e)
       {
          System.out.println(e);
       }
    }
}
class MyException extends Exception{

int a;
MyException(int b){
a=b;
}
public String toString(){
return("Exception number: " +a);
}
}
```

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OUTPUT:

D:\java>javac -d . user_defined.java

D:\java>java Exception_Handling.user_defined
Exception number: 5

D:\java>