

## Qu Exception demo program -1

```
import java.io.*;
import java.util.*;
class edemo
{
    public static void main(String args[])
    {
        Scanner sc =new Scanner(System.in);
        System.out.println("Enter the two numbers");
        int x= sc.nextInt();
        int y= sc.nextInt();
        try
        {
            System.out.println("Devision is::" +(x/y));
        }
        catch(Exception e)
        {
            System.out.println("Exception caught" +e);
        }
        System.out.println("My first exception program");
    }
}
```

## Qu Exception demo program-2

```
import java.io.*;
import java.util.*;
class edemo1
{
    public static void main(String args[])
    {

        int a[] = {1,2,3};
        try
        {
            System.out.println(a[3]);
        }
    }
}
```

```

    }
    catch(Exception e)
    {
        System.out.println("Exception caught" +e);
    }
    System.out.println("my execption program");
}
}

```

Qu 1 Number is zero Exception otherwise prime or not.

```

import java.util.*;
import java.io.*;

class zero extends Exception
{

}

class prime
{
    static int flag = 0;
    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);
        int n,i;
        try
        {
            System.out.println("Enter the number");
            n = sc.nextInt();
            if(n == 0)
                throw new zero();
            for(i=2;i<=n/2;i++)
            {
                if(n % i == 0)

```

```

        {
            flag = 1;
            break;
        }
    }
    if(flag == 0)
        System.out.println("Number is prime");
    else
        System.out.println("Number is not prime");
    }
    catch (zero z)
    {
        System.out.print("Number is zero");
    }
}
}

```

Qu 2 : Invalid date Exception

```

import java.util.*;
import java.io.*;

class InvalidDateException extends Exception
{
}

class mydate
{
    int dd,mm,yy;

    public void accept()
    {
        Scanner sc = new Scanner(System.in);
        try
        {

```

```

        System.out.println("Enter the date");
        dd = sc.nextInt();
        System.out.println("Enter the month");
        mm = sc.nextInt();
        System.out.println("Enter the year");
        yy = sc.nextInt();

        if(dd < 1 || dd > 31 || mm < 1 || mm > 12 || yy < 1000
|| yy > 10000)
            throw new InvalidDateException();
        else
            display();
    }

    catch (InvalidDateException d)
    {
        System.out.println("Invalid date exception caught");
    }

}

public void display()
{
    System.out.println("Entered Date is Valid dd/mm/yyyy ::
"+dd+"/"+ + mm+"/"+ + yy);
}

public static void main(String args[])
{
    mydate m=new mydate();
    m.accept();
}
}

```

Qu 3: User define Exception [Covid example]

```
import java.io.*;
```

```

import java.util.*;

class CovidException extends Exception
{
    CovidException()
    {
        System.out.print("Patient is Covid Positive, need to be
hospitalized::");
    }
}

class patient
{
    String pname;
    int age,olevel,hrcr;
    patient(String pname,int age,int olevel,int hrct)
    {
        this.pname=pname;
        this.age=age;
        this.olevel=olevel;
        this.hrcr=hrct;
    }

    public static void main(String args[])
    {
        String pname;
        int age,olevel,hrcr;
        Scanner sc = new Scanner(System.in);

        try
        {
            System.out.println("Enter Patient name");
            pname = sc.next();
            System.out.println("Enter Patient age");
            age = sc.nextInt();
            System.out.println("Enter Patient Oxygen level");
            olevel = sc.nextInt();

```

```

        System.out.println("Enter Patient HRCT scan report");
        hrct = sc.nextInt();
        patient p =new patient(pname,age,olevel,hrct);

        if(olevel < 95 && hrct > 10)
            throw new CovidException();
        else
            System.out.println("Patient name
is::"+pname+"\n Patient age is::"+age+"\n Patient olevel is::"+
olevel+"\n Patient HRCT is::"+ hrct);
    }

    catch(CovidException e)
    {
        System.out.println(e);
    }
}

```

#### Qu 4: username and password invalid Exception

```

import java.io.*;
import java.util.*;

class InvalidUsernameException extends Exception
{
    InvalidUsernameException(String u)
    {
        System.out.print("\n Invalid Username Exception caught::"
+u);
    }
}

class InvalidPasswordException extends Exception
{
    InvalidPasswordException(String p)

```

```

        {
            System.out.print("\n Invalid Password Exception caught::"
+p);
        }
    }

```

```

class logindemo
{

```

```

    String username,password;

```

```

    logindemo()
    {
        username="Computer";
        password="123";
    }

```

```

    logindemo(String u, String p)
    {
        this.username=u;
        this.password=p;
    }

```

```

    public static void main(String args[])
    {
        logindemo d= new logindemo();
        String u,p;
        try
        {
            u = args[0];
            p = args[1];
            logindemo d1= new logindemo(u,p);

            if(d.username.equals(d1.username))
                System.out.println("Username is Valid");
            else
                throw new InvalidUsernameException(u);

```

```
        if(d.password.equals(d1.password))
            System.out.println("Password is Valid");
        else
            throw new InvalidPasswordException(p);
    }

    catch(InvalidUsernameException uu)
    {
        System.out.print("\t" + uu);
    }

    catch(InvalidPasswordException pp)
    {
        System.out.print("\t" + pp);
    }
}
}
```