**1.Write a program to create own exception (user defined exception) to accept no. from user and throw an exception if the number is not even.**

import java.util.\*;

class NotEvenException extends Exception

{

NotEvenException()

{

System.out.println("Number is not Even");

}

}

class CheckEvenNumber

{

public static void main(String[] args)

{

int number;

Scanner sc=new Scanner(System.in);

try

{

System.out.println("Enter any Number:");

number=sc.nextInt();

if(number%2!=0)

{

throw new NotEvenException() ;

}

else

{

System.out.println("Number is Even");

}

}

catch(Exception e)

{

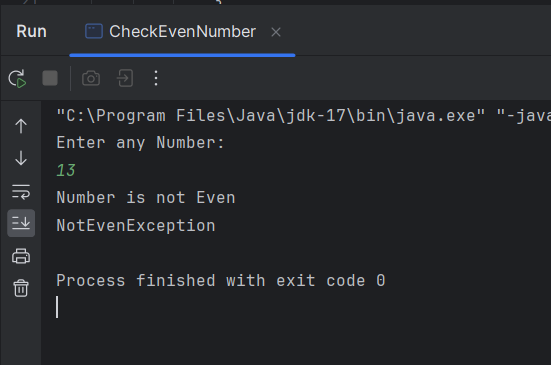
System.out.println(e);

}

}

}

**OUTPUT:**



**2.Write a program to create own exception (user defined exception) to accept no. from user and throw an exception if the number is not Prime.**

import java.util.\*;

class NotPrimeException extends Exception

{

NotPrimeException()

{

System.out.println("Number is not Prime");

}

}

class CheckPrimeNumber

{

public static void main(String[] args)

{

int number,i;

Scanner sc=new Scanner(System.in);

try

{

System.out.println("Enter any Number:");

number=sc.nextInt();

boolean flag=true;

for(i=2;i<=number/2;i++)

{

if(number%i==0)

{

flag=false;

break;

}

}

if(!flag)

{

throw new NotPrimeException();

}

else

{

System.out.println("Number is Prime");

}

}

catch(Exception e)

{

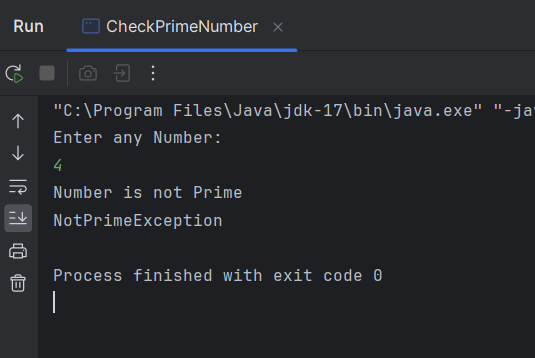
System.out.println(e);

}

}

}

**OUTPUT:**



**3.Write a program to create own exception (user defined exception) to accept age from user and throw an exception if the age is negative.**

import java.util.\*;

class NegativeAgeException extends Exception

{

NegativeAgeException()

{

System.out.println("Enter Valid age");

}

}

class CheckAge

{

public static void main(String[] args)

{

int age;

Scanner sc=new Scanner(System.in);

try

{

System.out.println("Enter your age:");

age=sc.nextInt();

if(age<0)

{

throw new NegativeAgeException();

}

else

{

System.out.println("Your age is:"+age);

}

}

catch (Exception e)

{

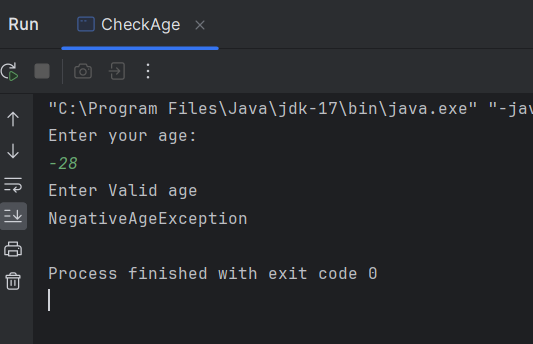
System.out.println(e);

}

}

}

**OUTPUT:**

****

**4.Write a program to create own exception (user defined exception) to accept String from user and throw an exception if the String is not starting character ‘s’.**

import java.util.\*;

class notstartwithsException extends Exception

{

notstartwithsException()

{

System.out.println("String is starting with 's'");

}

}

public class Exception4

{

public static void main(String[] args)

{

String str;

Scanner obj=new Scanner(System.in);

try

{

System.out.println("Enter any String:-");

str=obj.nextLine();

if(str.startsWith("S")||str.startsWith("s"))

{

throw new notstartwithsException();

}

else

{

System.out.println("String is not starting with 's'");

}

}

catch(Exception e)

{

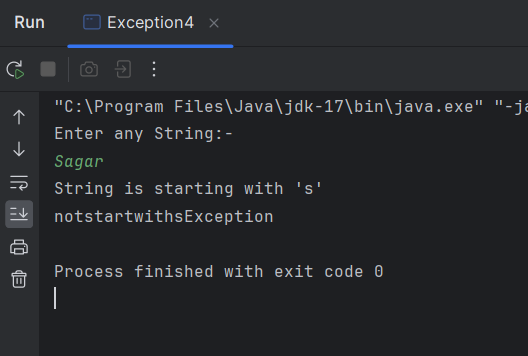
System.out.println(e);

}

}

}

**OUTPUT :**



**5.Write a program to create own exception (user defined exception) to accept Password from user and throw an “AuthenticationFailure” exception if the password is incorrect.**

import java.util.\*;

class AuthenticationFailureException extends Exception

{

AuthenticationFailureException()

{

System.out.println("Authentication Failure: Incorrect Password!");

}

}

class CheckPassword

{

public static void main(String[] args)

{

int password;

Scanner sc=new Scanner(System.in);

try

{

System.out.println("Enter Password:");

password=sc.nextInt();

if(password==61068)

{

throw new AuthenticationFailureException();

}

else

{

System.out.println("Authentication Failure");

}

}

catch(Exception e)

{

System.out.println(e);

}

}

}

**OUTPUT:**

