**Object Oriented Programming Laboratory Exercise**

**Session 11 Date:16/12/2020**

**Exception Handling in Java**

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1. **Write a program to handle array index out of bound exception.**

**Prog:**

class ArrayDemo

{

public static void main(String args[])

{

int a[] =new int[5];

try

{

a[6]=2;

}

catch(ArrayIndexOutOfBoundsException e)

{

System.out.println("Array Index Out of Bond Exception");

}

}

}

**Output:**

F:\DMC\SYBCA\Java\Lab\Session 09>javac ArrayDemo.java

F:\DMC\SYBCA\Java\Lab\Session 09>java ArrayDemo

Array Index Out of Bond Exception

1. **Write a program to handle arithmetic exception.**

**Prog:**

class Demo1

{

public static void main(String args[])

{

int x=0, y=0, a=10, b=5, c=5;

try

{

x=a/(b-c);

}

catch(ArithmeticException e)

{

System.out.println("Arithmetic Exception");

y=a/(b+c);

System.out.println("Value is"+" "+y);

}

}

}

**Output:**

F:\DMC\SYBCA\Java\Lab\Session 09>javac Demo1.java

F:\DMC\SYBCA\Java\Lab\Session 09>java Demo1

Arithmetic Exception

Value is 1

1. **Write a program to demonstrate use of multiple catch block statements in exception handling.**

**Prog:**

class MultipleCatch

{

public static void main(String args[])

{

int a=0, b=0, x=12, y=6, z=6;

int s[] =new int[4];

try

{

a=x/(y-z);

s[5]=6;

}

catch(ArithmeticException e)

{

System.out.println("Arithmetic Exception");

}

catch(ArrayIndexOutOfBoundsException e)

{

System.out.println("Array Index Out Of Bounds Exception");

}

}

}

**Output:**

F:\DMC\SYBCA\Java\Lab\Session 09>javac MultipleCatch.java

F:\DMC\SYBCA\Java\Lab\Session 09>java MultipleCatch

Arithmetic Exception