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Roll no-03

div-B

Experiment no-11

Experiment name-Implements programs based on try catch and finally block.

Try We specify the block of code that might give rise to the exception in a special block with a "Try" keyword.

Catch When the exception is raised it needs to be caught by the program. This is done using a "catch" keyword. So a catch block follows the try block that raises an exception. The keyword catch should always be used with a try.

Finally Sometimes we have an important code in our program that needs to be executed irrespective of whether or not the exception is thrown. This code is placed in a special block starting with the "Finally" keyword. The Finally block follows the Try-catch block.

```
1.Program using try and catch block.
Input- class EXCEPTION
{
    public static void main(String args[])
    {
        System.out.println("main method called");
    int a=10,b=0,c;
        try
        {
        c=a/b;
        System.out.println(+c);
      }
      catch(Exception e)
      {
            System.out.println(e);
      }
      System.out.println("main method found");
}
```

```
}
}
Output-
Microsoft Windows [Version 10.0.22621.3155]
(c) Microsoft Corporation. All rights reserved.
 C:\Users\Vaishnavi\Desktop\v\classwork>javac EXCEPTION.java
C:\Users\Vaishnavi\Desktop\v\classwork>java EXCEPTION
main method called
java.lang.ArithmeticException: / by zero
main methd found
2. java program using finally keyword. class
EXCEPTION
{
 public static void main(String args[])
 {
try
   {
     String s=null;
     System.out.println(s.toUpperCase());
   }
   catch(Exception e)
     System.out.println(e);
   }
finally
```

{

try

{

}

{

System.out.println(10/0);

catch(Exception e)

```
System.out.println(e);
       }
finally
       {
          System.out.println("hey");
       }
  }
}
Output-
 C:\Users\Vaishnavi\Desktop\v\classwork>javac EXCEPTION.java
 C:\Users\Vaishnavi\Desktop\v\classwork>java EXCEPTION java.lang.NullPointerException: Cannot invoke "String.toUpperCase()" because "<local1>" is null java.lang.ArithmeticException: / by zero
3. java program using nested try.
Input- class EXCEPTION
  public static void main(String args[])
  {
try
         {
try
         int arr[]={2,4,67};
         System.out.println(+arr[5]);
       }
       catch(ArrayIndexOutOfBoundsException e)
          System.out.println(e);
       }
       System.out.println(10/0);
     }
     catch(Exception e)
     {
```

```
System.out.println(e);

}

Output-

C:\Users\Vaishnavi\Desktop\v\classwork>javac EXCEPTION.java

C:\Users\Vaishnavi\Desktop\v\classwork>java EXCEPTION
java.lang.ArrayIndexOutOfBoundsException: Index 5 out of bounds for length 3
java.lang.ArithmeticException: / by zero
```