

Department of Computer Science and Engineering
Data Science

Department of Computer Science and Engineering Data Science

Academic Year: 2022-2023 Name of Student: Arya Patil

Semester: III Student ID: 21107009

Class / Branch: SE Data Science Date Of Performance: 29/09/2022 Subject: OOPJ Lab Date Of Submission: 29/09/2022

Name of Instructor: Prof. Poonam Pangarkar

Experiment No. 9

Aim: - Write a Java program for exception handling

Program 9(a): Using try and catch block

```
public class exp9
{
public static void main(String[] args)
{
try
{
int[] myNumbers={1,2,3};
System.out.println("inside try block"+myNumbers[10]);
}
catch(Exception e)
```



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```
System.out.println("Something went wrong");
}
finally
{
System.out.println("The 'try catch' is finished.");
}
}
}
Program 9(b): Using throw expression
public class exp9
{
static void checkAge(int age)
{
if(age<18)
{
throw new ArithmeticException("Access Denied - You must be at least 18 years
old.");
}
```



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```
else
{
System.out.println("Access granted- Your are old enough!");
}

public static void main(String[] args)
{
checkAge(15);
}
```

Program 9(c): Using throws expression

```
import java.io.IOException;
class exp9
{
  void m()throws IOException
{
  throw new IOException("device error");
}
```



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```
void n()throws IOException
m();
void p()
{
try
n();
catch(Exception e)
{
System.out.print("exception handled");
System.out.println();
public static void main(String args[])
```



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```
exp9 obj=new exp9();
  obj.p();
  System.out.println("normal flow..");
  }
  }
  Output:-
  Program 9(a):
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$ javac exp9.java
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$ java exp9
Something went wrong
The 'try catch' is finished.
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$
```

Program 9(b):



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Program 9(c):

apsit@apsit-HP-280-Pro-G6-Microtower-PC:~\$ javac exp9.java apsit@apsit-HP-280-Pro-G6-Microtower-PC:~\$ java exp9 exception handled normal flow.. apsit@apsit-HP-280-Pro-G6-Microtower-PC:~\$