**Practice project - Assisted**

Write a program in Java to demonstrate the **throw** keyword

**public** **class** Throw {

**public** **static** **void** main(String[] args)

{

**int** a=45,b=0,rs;

**try**

{

**if**(b==0)

**throw**(**new** ArithmeticException("Can't divide by zero."));

**else**

{

rs = a / b;

System.***out***.print("\n\tThe result is : " + rs);

}

}

**catch**(ArithmeticException Ex)

{

System.***out***.print("\n\tError : " + Ex.getMessage());

}

System.***out***.print("\n\tEnd of program.");

}

}

Write a program in Java to demonstrate the **throws** keyword

**public** **class** Throws {

**void** Division() **throws** ArithmeticException

{

**int** a=45,b=0,rs;

rs = a / b;

System.***out***.print("\n\tThe result is : " + rs);

}

**public** **static** **void** main(String[] args)

{

Throws T = **new** Throws();

**try**

{

T.Division();

}

**catch**(ArithmeticException Ex)

{

System.***out***.print("\n\tError : " + Ex.getMessage());

}

System.***out***.print("\n\tEnd of program.");

}

}

Write a program in Java to demonstrate the **finally** keyword

**public** **class** Finally {

**public** **static** **void** main(String[] args)

{

**int** a=45,b=0,rs=0;

**try**

{

rs = a / b;

}

**catch**(ArithmeticException Ex)

{

System.***out***.print("\n\tError : " + Ex.getMessage());

}

**finally**

{

System.***out***.print("\n\tThe result is : " + rs);

}

}

}

Write a program in Java to demonstrate custom exceptions

**public** **class** CustomException **extends** Exception {

**public** CustomException(String s)

{

**super**(s);

}

**public** **static** **void** main(String args[])

{

**try**

{

**throw** **new** CustomException("temp");

}

**catch** (CustomException ex)

{

System.***out***.println("Caught");

System.***out***.println(ex.getMessage());

}

}

}