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Experiment Title:
Program on User Defined Exceptions

Code:

```java
import java.util.Scanner;

class TemperatureTooLowException extends Exception
{
    double temperature;
    TemperatureTooLowException(double temperature)
    {
        super("Temperature is less than " + temperature + " degrees");
        this.temperature = temperature;
    }
}

class UserDefinedException
{
    public static void checkTemperature(double temperature, double
    ↪   threshold) throws TemperatureTooLowException
    {
        if(temperature < threshold)
        {
            throw new TemperatureTooLowException(threshold);
        }
    }
    public static double inputTemperature() throws
    ↪   TemperatureTooLowException
    {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter the Temperature: ");
        double temperature = sc.nextDouble();
        checkTemperature(temperature, 4);
        return temperature;
    }
    public static void main(String args[])
    {
        try
        {
            double temperature = inputTemperature();
            System.out.println("The temperature read is: " +
            ↪   temperature);
        }
        catch(TemperatureTooLowException obj)
        {
            System.out.println("Exception Caught: ");
            System.out.println(obj);
        }
    }
```

```
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```

Ouput:

```
Enter the Temperature: 3
Exception Caught:
TemperatureTooLowException: Temperature is less than 4.0 degrees
```