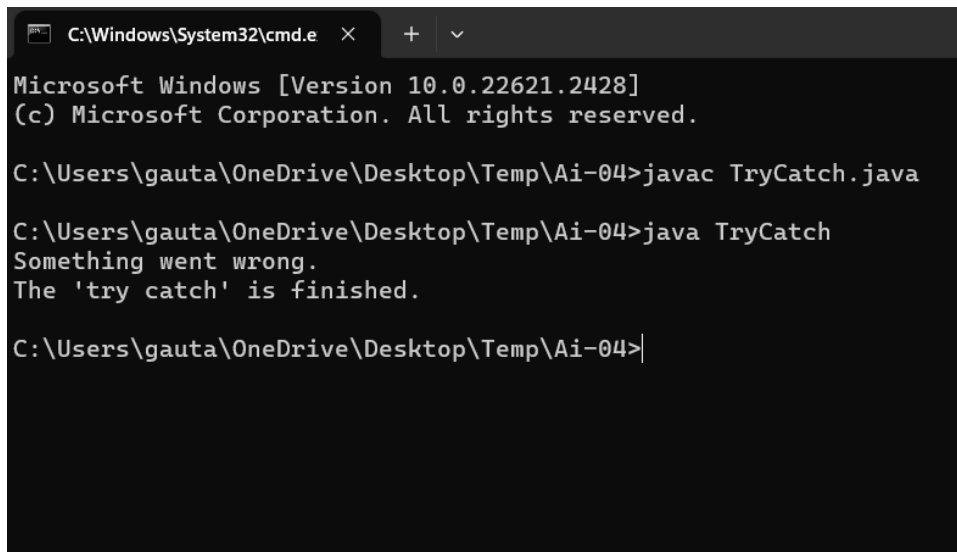


Exception handling.

1.Try-Catch-Finally

```
public class TryCatch {  
    public static void main(String[] args) {  
        try {  
            int[] myNumbers = {1, 2, 3};  
            System.out.println(myNumbers[10]);  
        } catch (Exception e) {  
            System.out.println("Something went wrong.");  
        } finally {  
            System.out.println("The 'try catch' is finished.");  
        }  
    }  
}
```

Output:



```
C:\Windows\System32\cmd.e  X  +  v  
Microsoft Windows [Version 10.0.22621.2428]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\gauta\OneDrive\Desktop\Temp\Ai-04>javac TryCatch.java  
  
C:\Users\gauta\OneDrive\Desktop\Temp\Ai-04>java TryCatch  
Something went wrong.  
The 'try catch' is finished.  
  
C:\Users\gauta\OneDrive\Desktop\Temp\Ai-04>
```

2.Throw

```
class UserDefinedException extends Exception {  
    public UserDefinedException(String str) {  
        super(str);  
    }  
}
```

```
public class Throw {  
    public static void main(String args[]) {  
        try {  
            throw new UserDefinedException("This is a user-defined exception");  
        } catch (UserDefinedException ude) {  
            System.out.println("Caught the exception");  
            System.out.println(ude.getMessage());  
        }  
    }  
}
```

Output:

```
C:\Windows\System32\cmd.e  X  +  v
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\Users\gauta\OneDrive\Desktop\Temp\Ai-04\Temp>javac Throw.java

C:\Users\gauta\OneDrive\Desktop\Temp\Ai-04\Temp>java Throw
Caught the exception
This is a user-defined exception

C:\Users\gauta\OneDrive\Desktop\Temp\Ai-04\Temp>|
```

3.Throws

```
import java.io.IOException;
```

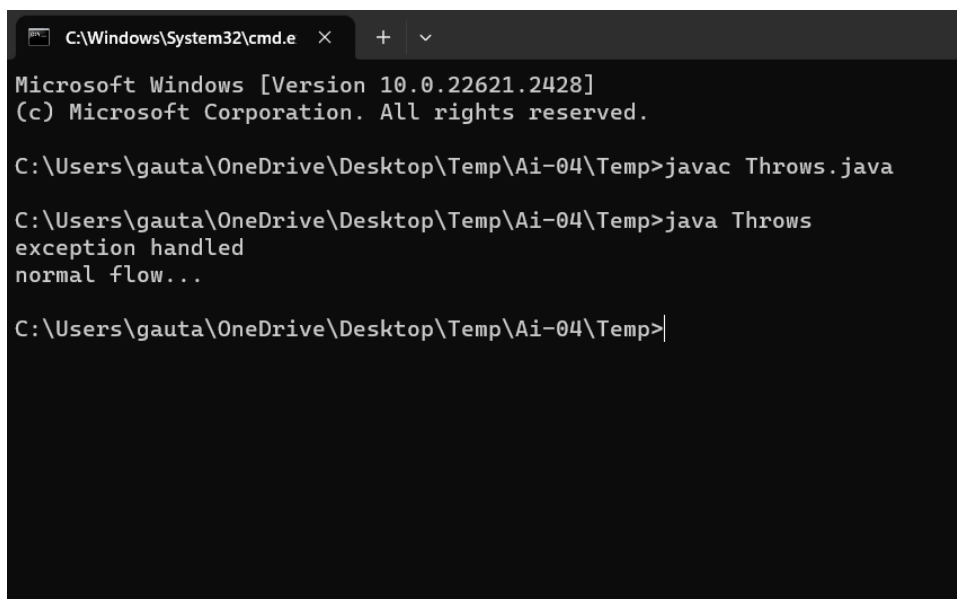
```
class M {
    void method() throws IOException {
        throw new IOException("device error");
    }
}
```

```
public class Throws{
    public static void main(String args[]) {
        try {
            M m = new M();
            m.method();
        } catch (Exception e) {
```

```
        System.out.println("exception handled");
    }

    System.out.println("normal flow...");
}
}
```

Output:



```
C:\Windows\System32\cmd.e  X  +  v
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\Users\gauta\OneDrive\Desktop\Temp\Ai-04\Temp>javac Throws.java

C:\Users\gauta\OneDrive\Desktop\Temp\Ai-04\Temp>java Throws
exception handled
normal flow...

C:\Users\gauta\OneDrive\Desktop\Temp\Ai-04\Temp>|
```