A close-up of logos

Description automatically generated

**BITP 3113**

**OBJECT ORIENTED PROGRAMMING**

**LAB:**

**LAB 10 - EXCEPTION**

**LECTURER NAME:**

**DR EMALIANA BINTI KASMURI**

**STUDENT NAME:**

**MUHAMMAD AFIQ MUHAIMIN BIN MOHD ZAINI**

**MATRIC NUMBER:**

**B032410648**

**SEMESTER: 2-2024/25**

# Exercise 2

1. Download the class **labexception-exercisetwo.zip** from ulearn.
2. Execute the ExceptionDemoOne.java .
3. Observe the output.
4. Record your observation.
5. Repeat step 2 until 4 to execute ExceptionDemoTwo.java and

ExceptionDemoThree.java.

# Output

# ExceptionDemoOne.java

# No Output because

# The program has nothing inside the *main()* method

# It starts, finds no code to execute, and exits successfully.

# No exceptions or errors occur.

# ExceptionDemoTwo.java

# The program asks for data at positions 0, 2, and 6 from the DataProducer.

# It successfully gets and prints the data at positions 0 and 2 because those positions exist.

# When it tries to get data at position 6, the program crashes with an *IndexOutOfBoundsException* because there is no data at that position.

# Since the program doesn’t handle this error, it stops running and shows an error message.

# ExceptionDemoThree.java

# The program creates two department objects and tries to show how many staff each has.

# However, it crashes with a NullPointerException because one or both departments do not have their staff list set up properly.

# The program tries to count staff from a list that doesn’t exist (is null), which causes the error.

# There is no error handling, so the program stops and shows an error message.

# Exercise 3

Based on the knowledge and skill comprehended from the previous exercises, enhanced the solution for ExceptionDemoOne.java, ExceptionDemoTwo.java and ExceptionDemoThree.java for the application to end unabruptly.

Then, submit the solutions in ulearn.