NATIONAL TECHNICAL UNIVERSITY OF UKRAINE "IGOR SIKORSKY KYIV POLYTECHNIC INSTITUTE"

Faculty of Informatics and Computer Engineering

Department of Computer Engineering

Distributed Information Systems

Lab №2 Java Threads

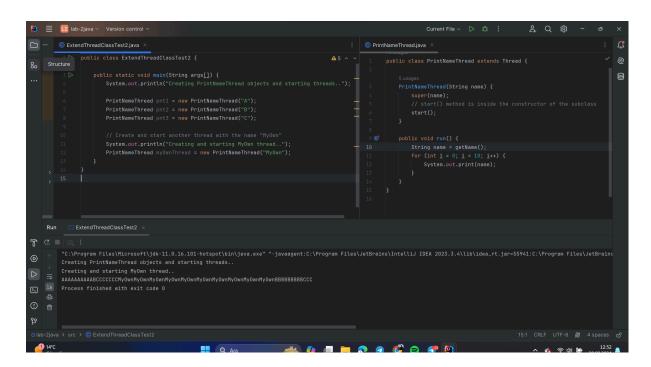
Student, group _	<u>IM-14 FIO1</u>
	MEHMET KULUBECİOGLU

Reviewer <u>YULİA TİMOFEEVA</u>

TASKS:

- 1. Create a new project
- Write PrintNameThread.java as shown below
- 2. Modify the ExtendThreadClassTest0.java as shown below.
- 3. Modify ExtendThreadClassTest0.java as following. Build and run the application.
 - Create and start another thread.
 - Set the name of the thread as "MyOwn"
- 4. Create a new project. Under Name and Location pane, for the Project Name field, type in ExtendThreadClassTest2 as project name. For Create Main Class field, type in ExtendThreadClassTest2.
- 5. Write PrintNameThread.java as shown below. Note that the start() method is invoked as part of the constructor method of the PrintNameThread class.
- 6. Modify ExtendThreadClassTest2.java as following. Build and run the application:
 - Create and start another thread.
 - Set the name of the thread as "MyOwn"

MY CODES:



ExtendThreadClassTest2.java

- 1. Main Method
 - The statement "Creating PrintNameThread objects and starting threads.." is printed on the screen.

PrintNameThread.java

1. Constructor Method

```
5 usages

PrintNameThread(String name) {

super(name);

// start() method is inside the constructor of the subclass

start();

}
```

2. Run Method

```
public void run() {
    String name = getName();
    for (int i = 0; i < 10; i++) {
        System.out.print(name);
    }
}</pre>
```

3. Output

Report:

ExtendThreadClassTest2.java

- 1. Main Method
- "Creating PrintNameThread objects and starting threads.." is printed on the screen.
- 2. Creating and Starting Thread A
- Thread A is created with the name "A".
- Thread A is started and the run method is executed.
- 3. Creating and Starting Thread B
- Thread B is created with the name "B".
- Thread B is started and the run method is executed.
- 4. Creating and Starting Thread C
- Thread C is created with the name "C".
- Thread C is started and the run method is executed.
- 5. A Custom Thread is Created with the Name "MyOwn"
- A thread named "MyOwn" is created but not started.

PrintNameThread.java

1. Constructor Method

- Thread name is assigned.
- The thread is started and the run method is executed.

2. Run Method

- The name of the thread is taken.
- The name is printed on the screen 10 times.