

M'sila University, Department of Computer Science,

ISIL

COURSE: DISTRIBUTED INFORMATION SYSTEMS

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TP 4: Distributed Information Systems

Required software:

- Java Software Development Kit (jdk 1.8 or later)
- Java editor such as JCreator

Exercise 1:

Implement a java RMI application where the client and the server exchange messages as follows:

Client:

First, the client should enter the name of one shape: circle, square, rectangle, and triangle, from an input dialog.

Next, the client must also enter what the server will calculate: area or perimeter from an input dialog.

Finally, based on the above inputs, the client must enter the necessary dimensions of the selected shape.

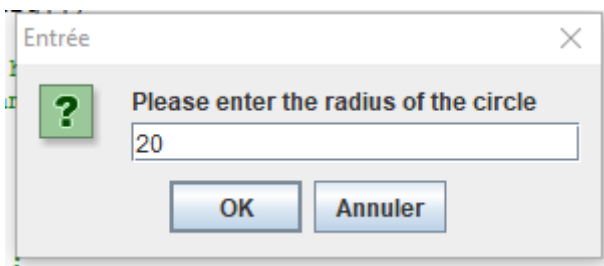
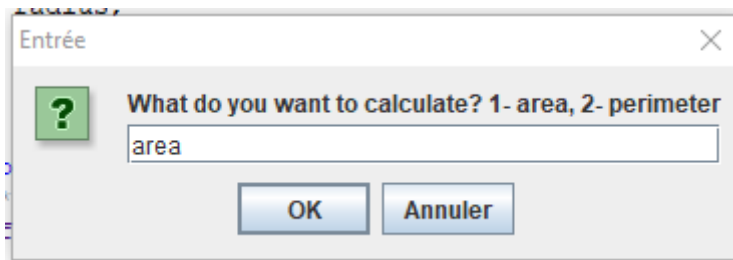
Server:

The server should calculate either the area or the perimeter of the specified shape and return the output to the client.

1. In your desktop, create a folder TP4.
 2. Open JCreator editor.
 3. Write your remote interface, client, and server java files.
 4. Save the three files in TP4 and compile by selecting **Build-Build file**.
 5. To run the application, you can follow these steps:
 - a. Open the command window by typing **cmd** and type **cd desktop** then press enter.
 - b. Type **cd TP4** then press enter.
 - c. Type **start rmiregistry** then press enter.
 - d. Open the three files separately. Just double click on each java file.
 - e. **Run** the server program from JCreator menu.
 - f. **Run** the client program from JCreator menu.
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Output :

```
a main(String arg[])
Entrée
? Please enter the name of the shape: 1- circle, 2- square, 3- rectangle, 4- triangle
circle
OK Annuler
b:
ut.println(obj);
pe=JOptionPane.showInputDialog("Please enter the name of the shape:
```



```
General Output
-----Configuration: <Default
The area of the circle is 1256.0

Process completed.
```
