

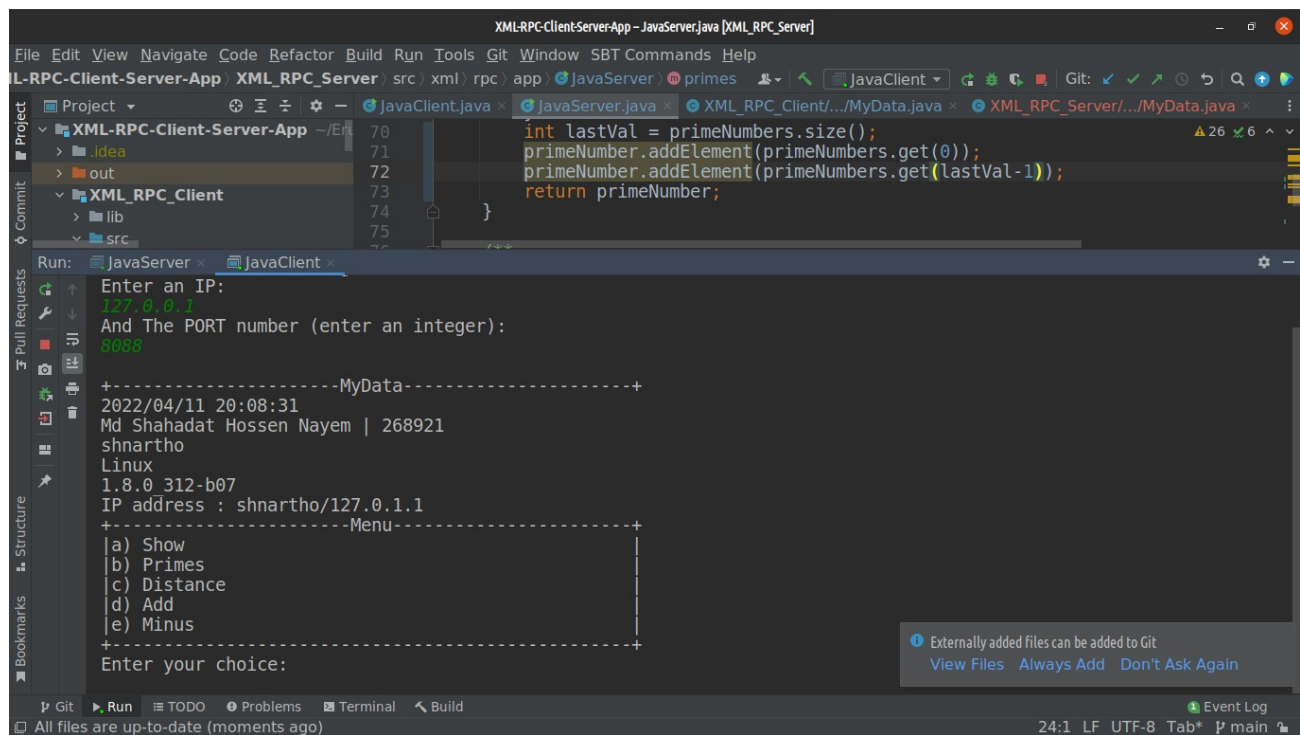
Distributed Computer System Report

Wroclaw University of Science and Technology, Date: 2022

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Lab - 1b

*Show MyDaya and Menu after ip and port input



```
XMLRPC-Client-ServerApp - JavaServer.java [XML_RPC_Server]
File Edit View Navigate Code Refactor Build Run Tools Git Window SBT Commands Help
XMLRPC-Client-ServerApp XML_RPC_Server src \ xml \ rpc \ app JavaServer primes JavaClient Git:
Project XMLRPC-Client-ServerApp ~\E 70
> .idea 71
> out 72
XML_RPC_Client 73
lib 74
src 75
Run: JavaServer x JavaClient
Enter an IP:
127.0.0.1
And The PORT number (enter an integer):
8088
+-----MyData-----+
2022/04/11 20:08:31
Md Shahadat Hossen Nayem | 268921
shnartho
Linux
1.8.0 312-b07
IP address : shnartho/127.0.1.1
+-----Menu-----+
|a) Show
|b) Primes
|c) Distance
|d) Add
|e) Minus
+-----+
Enter your choice:
Externally added files can be added to Git
View Files Always Add Don't Ask Again
Git Run TODO Problems Terminal Build
All files are up-to-date (moments ago) 24:1 LF UTF-8 Tab* P main
```

*Show available functions on choice input A or a

The screenshot shows an IDE window titled "XMLRPC-ClientServerApp - JavaServer.java [XML_RPC_Server]". The code editor displays the following Java code in `XML_RPC_Server/.../MyData.java`:

```
int lastVal = primeNumbers.size();
primeNumber.addElement(primeNumbers.get(0));
primeNumber.addElement(primeNumbers.get(lastVal-1));
return primeNumber;
```

The Run console shows the output of the application:

```
b) Primes
c) Distance
d) Add
e) Minus
Enter your choice:
***** Available Functions' Description *****
a) show() - returns information about available procedures (procedure name, parameters, short
description).
b) primes(..) - returns the number of primes in the given range [min, max] and the largest prime
less than or equal to max.
c) distance(..) - returns the distance between two points on the Earth's surface. The parameters of
this method are the geographical coordinates of both points.
To calculate the distance, use/implement the haversine function (or another one that gives
better accuracy).
d) add(..) - Will return Addition of two numbers recursively
e) minus(..) - Will return Minus of two numbers
```

*Show only first and last Prime numbers on given range on Choice input B or b

The screenshot shows the same IDE window. The code editor displays the following Java code in `XML_RPC_Server/.../MyData.java`:

```
int lastVal = primeNumbers.size();
primeNumber.addElement(primeNumbers.get(0));
primeNumber.addElement(primeNumbers.get(lastVal-1));
return primeNumber;
```

The Run console shows the output of the application:

```
IP address : shnartho/127.0.1.1
-----Menu-----
a) Show
b) Primes
c) Distance
d) Add
e) Minus
Enter your choice:
b
Lower Value:
6
Upper Value:
20
Prime numbers between the given range are [ 7, 19]

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Process finished with exit code 0
```

*Show Haversine distance on Choice input C or c

```
XML_RPC_ClientServerApp - JavaServer.java [XML_RPC_Server]
File Edit View Navigate Code Refactor Build Run Tools Git Window SBT Commands Help
XML_RPC_ClientServerApp XML_RPC_Server src\xml\rpc\app JavaServer primes JavaClient
Project XML_RPC_ClientServerApp ~\E\ 70
  > .idea 71
  > out 72
  > XML_RPC_Client 73
  > 74
Run: JavaServer x JavaClient
1.8.0 312-b07
IP address : shnartho/127.0.1.1
-----Menu-----+
|a) Show
|b) Primes
|c) Distance
|d) Add
|e) Minus
+-----+
Enter your choice:
c
lat1 Value:
45
lon1 Value:
85
lat2 Value:
60
lon2 Value:
75
The distance between two Latitude and Longitude is: [ 1795.3910001389381] Kilometers
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Git Run TODO Problems Terminal Build
All files are up-to-date (a minute ago) 39:1 LF UTF-8 Tab* P main
```

*Show Addition of two numbers on Choice input D or d

```
XML_RPC_ClientServerApp - JavaServer.java [XML_RPC_Server]
File Edit View Navigate Code Refactor Build Run Tools Git Window SBT Commands Help
XML_RPC_ClientServerApp XML_RPC_Server src\xml\rpc\app JavaServer primes JavaClient
Project XML_RPC_ClientServerApp ~\E\ 70
  > .idea 71
  > out 72
  > XML_RPC_Client 73
  > 74
Run: JavaServer x JavaClient
Md Shahadat Hossen Nayem | 200921
shnartho
Linux
1.8.0 312-b07
IP address : shnartho/127.0.1.1
-----Menu-----+
|a) Show
|b) Primes
|c) Distance
|d) Add
|e) Minus
+-----+
Enter your choice:
d
First number (enter an integer):
5
Second number (enter an integer):
10
-----Minus-----+
| Server has returned the Addition: 15
+-----+
First number (enter an integer):
Git Run TODO Problems Terminal Build
All files are up-to-date (moments ago) 33:1 LF UTF-8 Tab* P main
```

*Show Substruction of two numbers on Choice input E or e

The screenshot shows an IDE window titled "XML-RPC-Client-ServerApp - JavaServer.java [XML_RPC_Server]". The editor displays the following code in `JavaServer.java`:

```
int lastVal = primeNumbers.size();
primeNumber.addElement(primeNumbers.get(0));
primeNumber.addElement(primeNumbers.get(lastVal-1));
return primeNumber;
```

The terminal window shows the output of the application:

```
-----Menu-----
|a) Show
|b) Primes
|c) Distance
|d) Add
|e) Minus
-----+
Enter your choice:
6
First number (enter an integer):
10
Second number (enter an integer):
5
+-----Minus-----+
| Server has returned the Minus: 5
+-----+

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Process finished with exit code 0
```

The bottom status bar indicates "38:1 LF UTF-8 Tab* main" and "All files are up-to-date (moments ago)".