

Task 3 – 4

1- Create the program in java that have three threads using two way of (inheritance and interface) (first will sum , second mul , third sub)

1. Initialize a variable sum = 0, mul =0 , sub =100)
2. Run a for loop for 10 times. i.e. : for(int x = 0; x < 10; x++) .
Add the value x to the value sum in each iteration in first thread
sub the value x to the value sub in each iteration in second thread
mul the value x to the value mul in each iteration in third thread.
3. Print the thread name, and the value as follows: "Thread: A
iteration 1 - value: 0 " in each iteration
4. Finally Print the sum from each thread as follows: "Thread: A -
Sum : 45 "

أعمل 3 thread واحده بتجمع وواحدة بتطرح وواحدة بتضرب
واعمل جوا كل thread لوب من 1 ل 10 وفيه متغير مثلا الجمع اول مره بصفر ف يجمع 0 + 0
بتاع اللوب) وهكذا
وبعدين بتطبع اسم ال thread وناتج كل مره لوب
وبعدين تطبع الناتج النهائي لكل thread

2- you will write a network server program. The program is a simple file server that makes a collection of files available for transmission to clients. When the server starts up, it needs to know the name of the directory that contains the collection of files.

اعمل برنامج فيه client و server بس بينقل ملف من ال Server لل client . باستخدام
مره ال TCP و مره UDP .

3- In 2 exercise you wrote a network server program that can send text files from a specified directory to clients. That program used a single thread, which handled all the communication with each client. **Modify the program to turn it into a multithreaded server**

عدل البرنامج التانى وبيكون ال server بيكلم كذا client باستخدام ال
multithreading