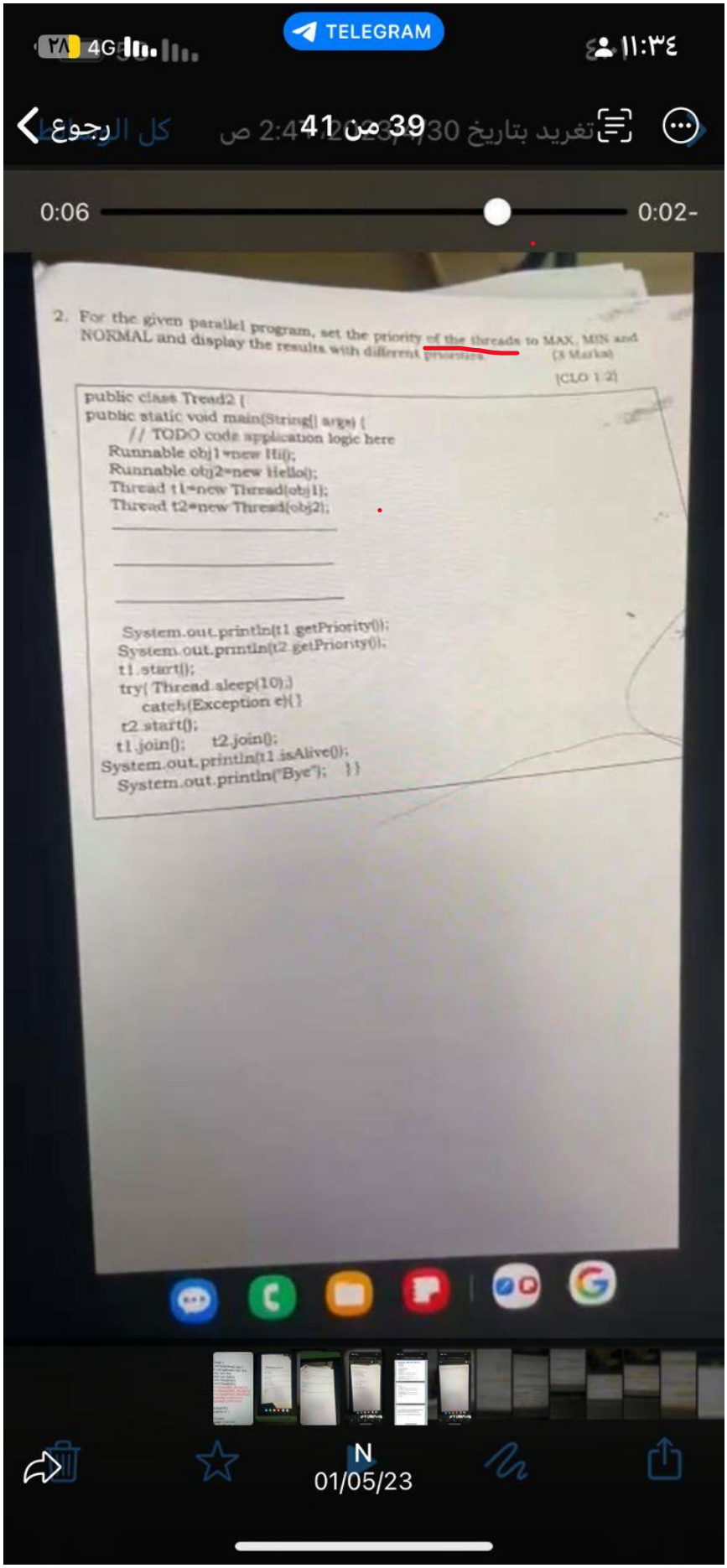
TELEGRAM
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2. For the given parallel program, set the priority of the threads to MAX, MIN and NORMAL and display the results with different priorities. (3 Marks)
[CLO 1,2]
public class Tread2 {
public static void main(String[] args) {
// TODO code application logic here
Runnable obj1=new Hi();
Runnable obj2=new Hello();
Thread t1=new Thread(obj1);
Thread t2=new Thread(obj2);
System.out.println(t1.getPriority());
System.out.println(t2.getPriority());
t1.start();
try{ Thread.sleep(10);}
catch(Exception e){}
t2.start();
t1.join(); t2.join();
System.out.println(t1.isAlive());
System.out.println("Bye"); }}
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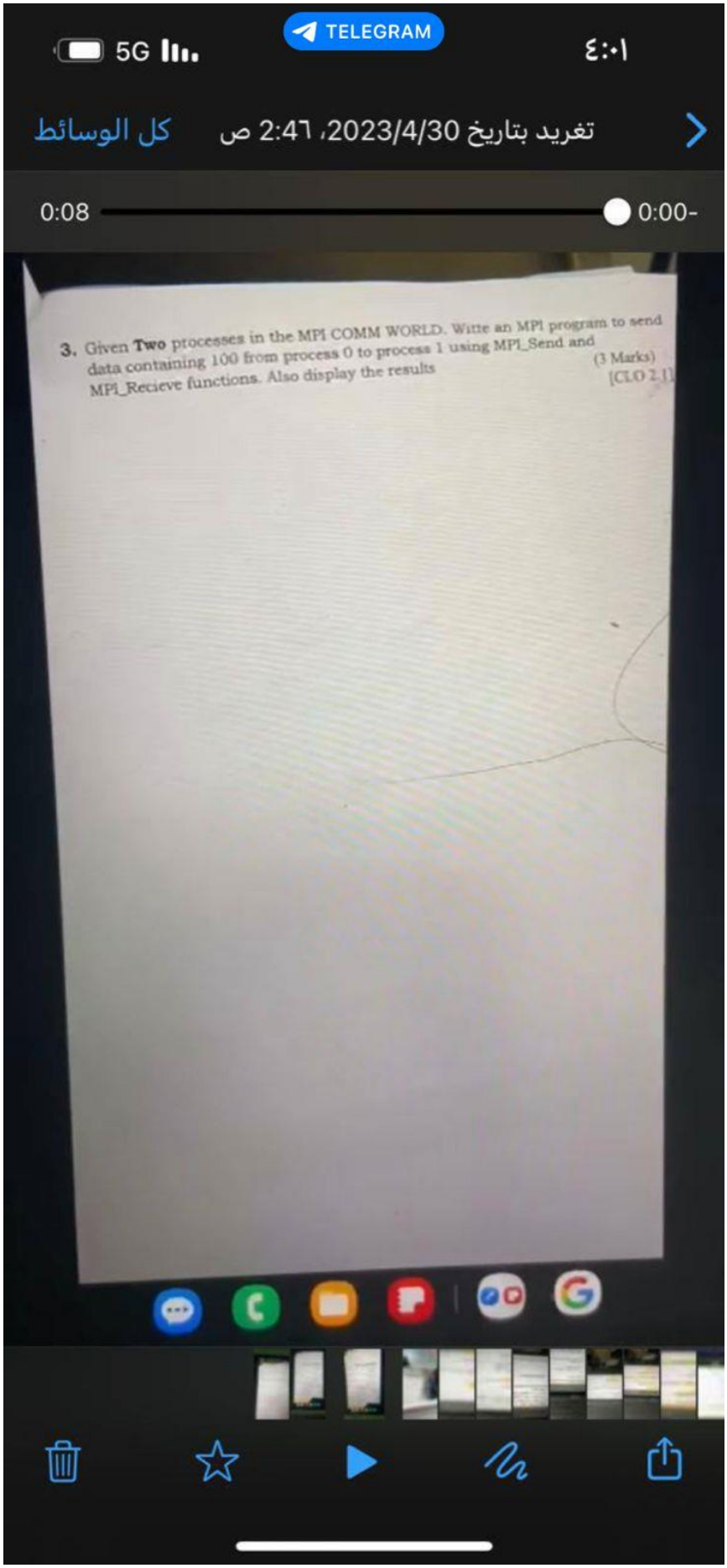
```
t1.setPriority(Thread.MAX_PRIORITY); //10
        t2.setPriority(Thread.MIN_PRIORITY); //1
        t1.setPriority(Thread.NORM_PRIORITY); //5
```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TELEGRAM
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3. Given Two processes in the MPI COMM WORLD. Witte an MPI program to send data containing 100 from process 0 to process 1 using MPI_Send and MPI_Recieve functions. Also display the results
(3 Marks)
[CLO 2.1]

```
#include "stdafx.h" //reduces compile time and Unnecessary Processing
#include <stdio.h> //contains built-in functions such as printf
#include <mpi.h>
#include <iostream>

int main(void) {
	int comm_sz;
	int my_rank;
	int data = 0;
	MPI_Init(NULL, NULL);
	MPI_Comm_size(MPI_COMM_WORLD, &comm_sz);
	MPI_Comm_rank(MPI_COMM_WORLD, &my_rank);
 if (my_rank == 0) {
		data = 100;
			MPI_Send(&data, 1, MPI_INT, 1, 0, MPI_COMM_WORLD);
	}
	else if (my_rank == 1) {
		MPI_Recv(&data, 1, MPI_INT, 0, 0, MPI_COMM_WORLD, MPI_STATUS_IGNORE);
		printf("Process %d received %d from process 0\n", my_rank, data);
	}

	MPI_Finalize();
	return 0;
}
```

Output:

Process 1 received 100 from process 0