## **Assignment 2**

## **Output:**

```
Microsoft Visual Studio Debug Console
Data sent!
Matrix Execution Time: 1182
Communication task set to priority 4
Sending data...
Data sent!
Sending data...
Data sent!
 Sending data...
Data sent!
Sending data...
Data sent!
Sending data...
Data sent!
Sending data...
Data sent!
Matrix Execution Time: 1098
 Communication task set to priority 2
Sending data...
Matrix Execution Time: 1091
Communication task set to priority 2
Data sent!
Matrix Execution Time: 0
Communication task set to priority 2
Sending data...
Matrix Execution Time: 1099
 Communication task set to priority 4
 Sending data...
Data sent!
 Sending data
```

- 1. "matrix task" using most of the CPU utilization because of its complex computation.
- 2. The priority of communication tasks needs to be increased to meet the timing constraint
- When the priority of "communication task" is increased, the "matrix task" takes longer to complete.
- 4. "matrix task" is greater than 1 second.

## Code: