Mandatory:

TW1. Take data from a potentiometer and combine it into a single 7-segment display. A red LED should also be connected to alert you if the potentiometer value exceeds the range of 100-800. [Team Work 5 Marks]

TW2. Repeat the task of lab 4 and write a report on it as instructed below.

Lab Report: Contents of the report are as follows:

- Introduction [theoretical background of your project 4-5 lines]
- Circuit diagram
- Code
- Conclusion [If you face any problem, mention the problem and its solution. Also analysis the performance of your work]

NB: Copy of lab report will be given zero. Team from which the report is copied will also get zero.

Optional [but must do it, it will help you to do better next]:

1. Interfacing a temperature sensor with Arduino Uno and display the temperature in a serial monitor and two seven segment display. Also connect a buzzer with Arduino to warn if the temperature goes beyond the range of 20-35 degree Celsius.

Two 7-segment display video link.

[NB: Keep your mandatory works in team folder and optional work in your own folder]