The project’s aim is displaying text on LED pendulum.

**(next slide)**

For this users would have to enter the text on the console window from which the text is sent via UART to the microcontroller which updates the text string on the LED pendulum.

The text can consist up to 10 characters of letters (A to Z) and numbers (0 to 9) and special characters, which are displayed on the pendulum during a swing from left to right.

For inverting a color we use the button. When pushing it, interrupt handler toggles the global variable.

When the UART1 receives the new characters from PC to the Microcontrollers, then interrupt handler updates the new characters .

**(next slide)**

Work plan

1. Walter was responsible for function that configures the module
2. Hassan implemented a function for reading the values from the UART module
3. And I did a push button interrupt handler

**(next slide)**

Push button interrupt handler

For it to be implemented, I had to configure the port P. Then for this (int\_handler.h) the handler and flag were declared. Next, I realized the port’s interrupt handler for int\_handler.c file. Finally, I assigned the handler to port P in the startup file.