Embedded SW design (MC)

" Task 1 "

⟹ Modules :-

1. Robot
2. DC-Motor
3. LCD
4. Timer

⟹ APIs :-

1. Robot_init ();
2. LCD_init ();
~~DC_Motor();~~
3. DC_Motor_init ();

4. Timer_init ();
5. Robot_PowerUP ();
6. DC_Motor_Forward ();
7. DC_Motor_back();

8. DC_Motor_right();
9. DC_Motor_Left ();
10. DC_Motor_inCraese Speed ();
11. DC_Motor_deCreases Spead ();

12. Robot_Running_state ();
13. Robot_Rotate Right ();
14. LCD_display_direction ();

15. Timer_Start ();

16. Timer_is expired ();

```c
Void main (void);
{
    Robot_init ();
    DC_Motor_init (DC_Motor1);
    DC_Motor_init (DC_Motor2);
    DC_Motor_init (DC_Motor3);
    DC_Motor_init (DC_Motor4);
    LCD_init ();
    Timer_init ();

    While (1)
    {
        Timer_start (five_seconds);
        while (Timer_expired != Timer_is_Expired ())
        {
            Robot_PowerUP ();
        }
        Timer_start (five_seconds);
        while (Timer_expired != Timer_is_Expired ())
        {
            Robot_Running_state ();
        }
    }
}
```