Friday, November 27, 2020 11:42 AM

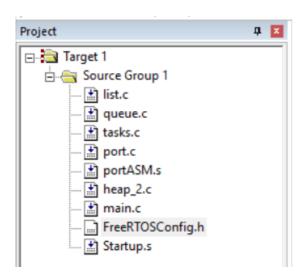
Aim: To observe LED blinking using FreeRTOS software.

Date: 27 November 2020

Free RTOS if an open source software

Source Code:

Downloaded the source files from google drive And imported few files like list, queue and source file.

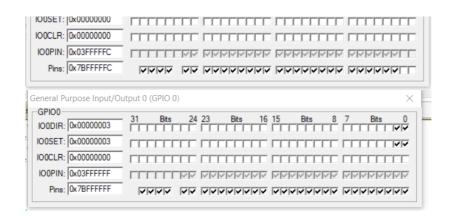


SOURCE CODE:

```
main.c Startup.s tasks.c
     #include<1pc21xx.h>
   2 #include "FreeRTOS.h"
   3 #include "task.h"
   5 void fl()
  IOSET0 = 1<<0;
   8
   9
          vTaskDelay(2);
         IOCLR0 = 1<<0;
  10
  11
          vTaskDelay(2);
  12 | }
  14 void f2()
  15 □ {
 16  while (1) (
17  IOSETO = 1<<1;
  18
         vTaskDelay(2);
  19
         IOCLR0 = 1 << 1;
  20
          vTaskDelay(2);
  21
 22 }
  24 int main()
  25 □ {
  26
       PINSELO = 0;
  27
      IODIR0 = 0x00000003;
  28
       xTaskCreate(f1, "Task1", 20, NULL, 1, NULL);
       xTaskCreate(f2, "Task2", 20, NULL, 1, NULL);
        vTaskStartScheduler();
  30
  31
       while(1);
  32 -}
```

OUTPUT:





INFERENCE:

We used FreeRTOS open software and obtained LED blinking at GPIO port 0