GENESIS - Learning Report
Embedded c

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Details

Ver. Rel. No.	Release Date	Prepared. By	Reviewed By	To be Approved	Remarks/Revision Details
1	03/01/2021	Naveen Kumar Pappuru			

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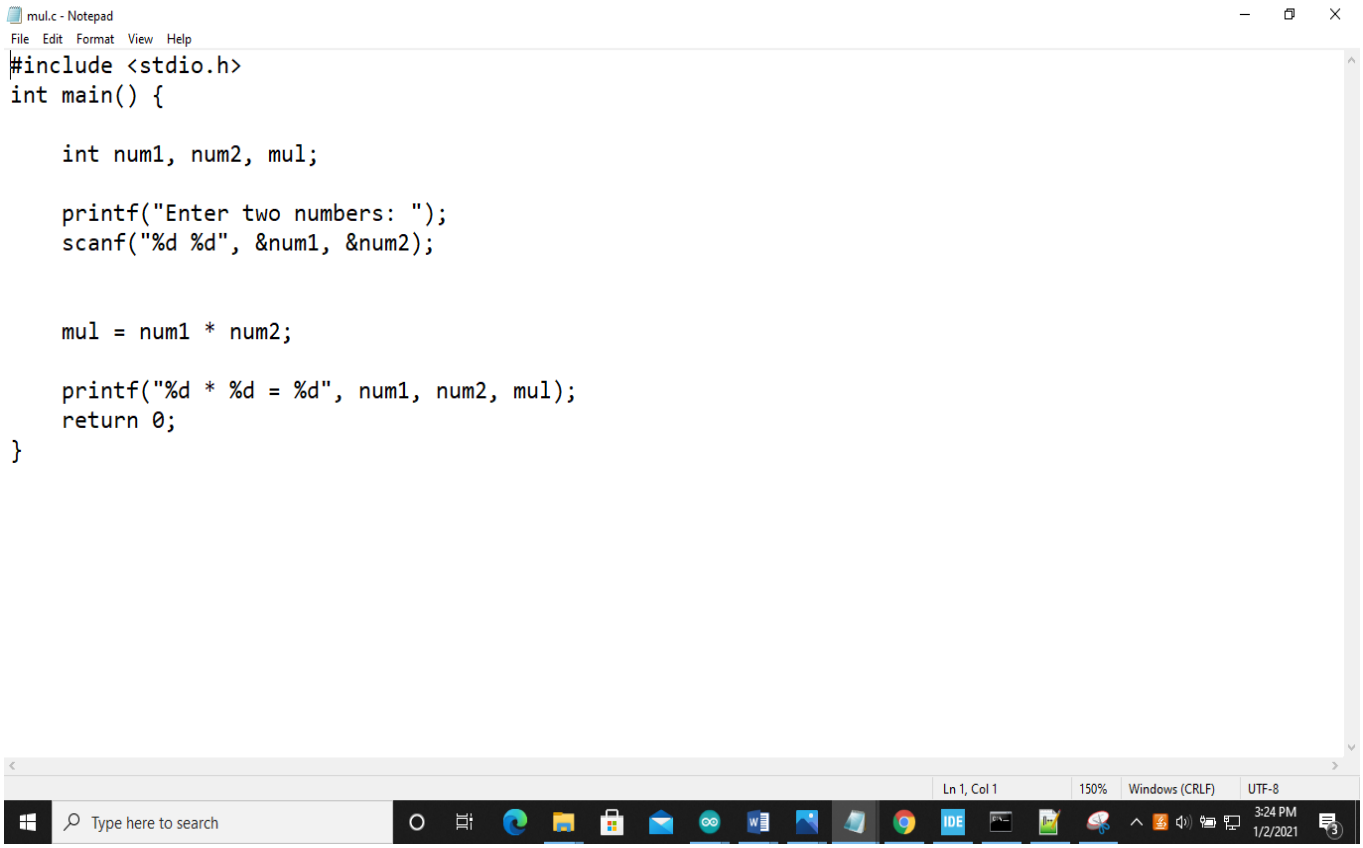
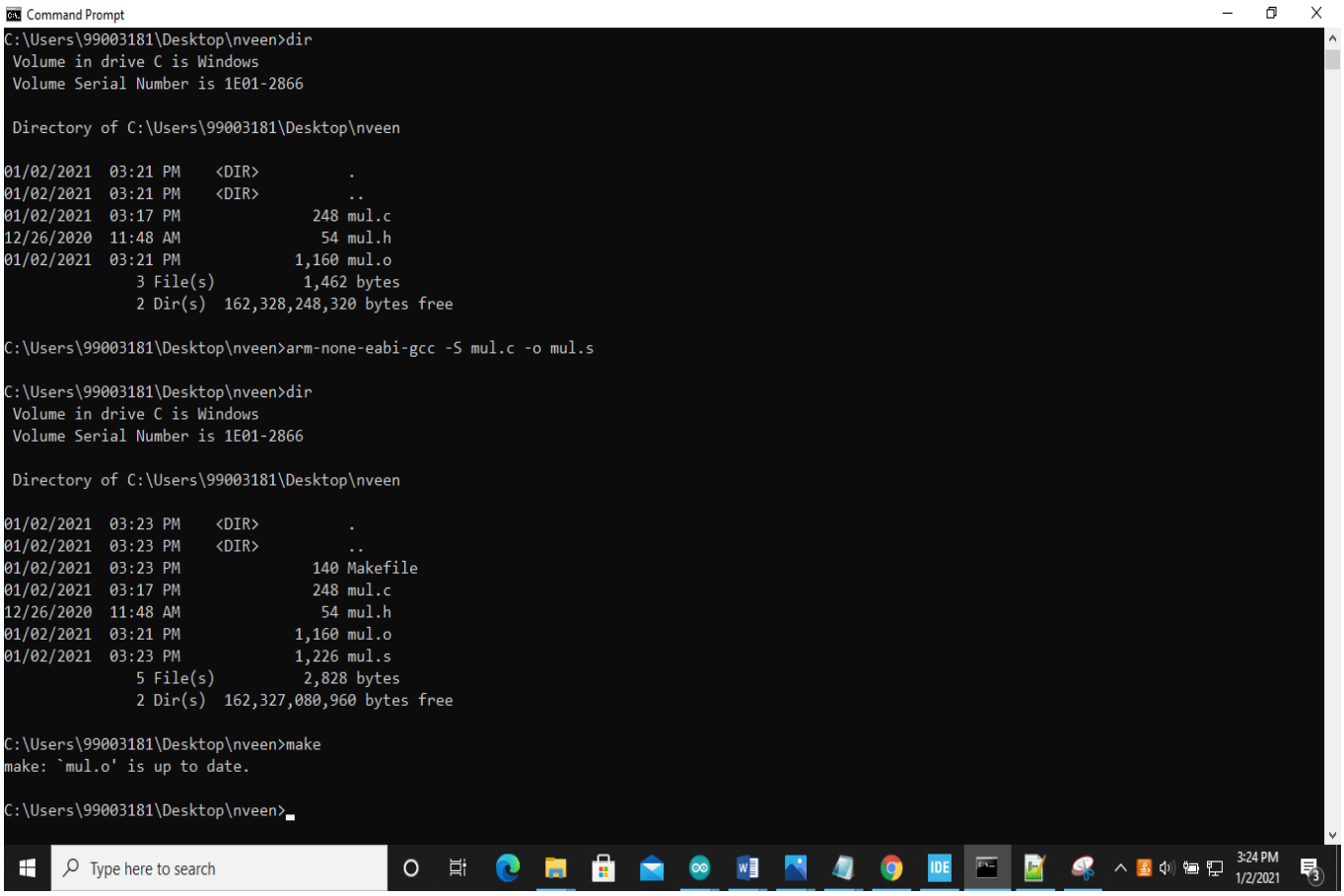
Activity-1:

Build System which is able to create the final executable and compiling it in make file using command prompt of window.

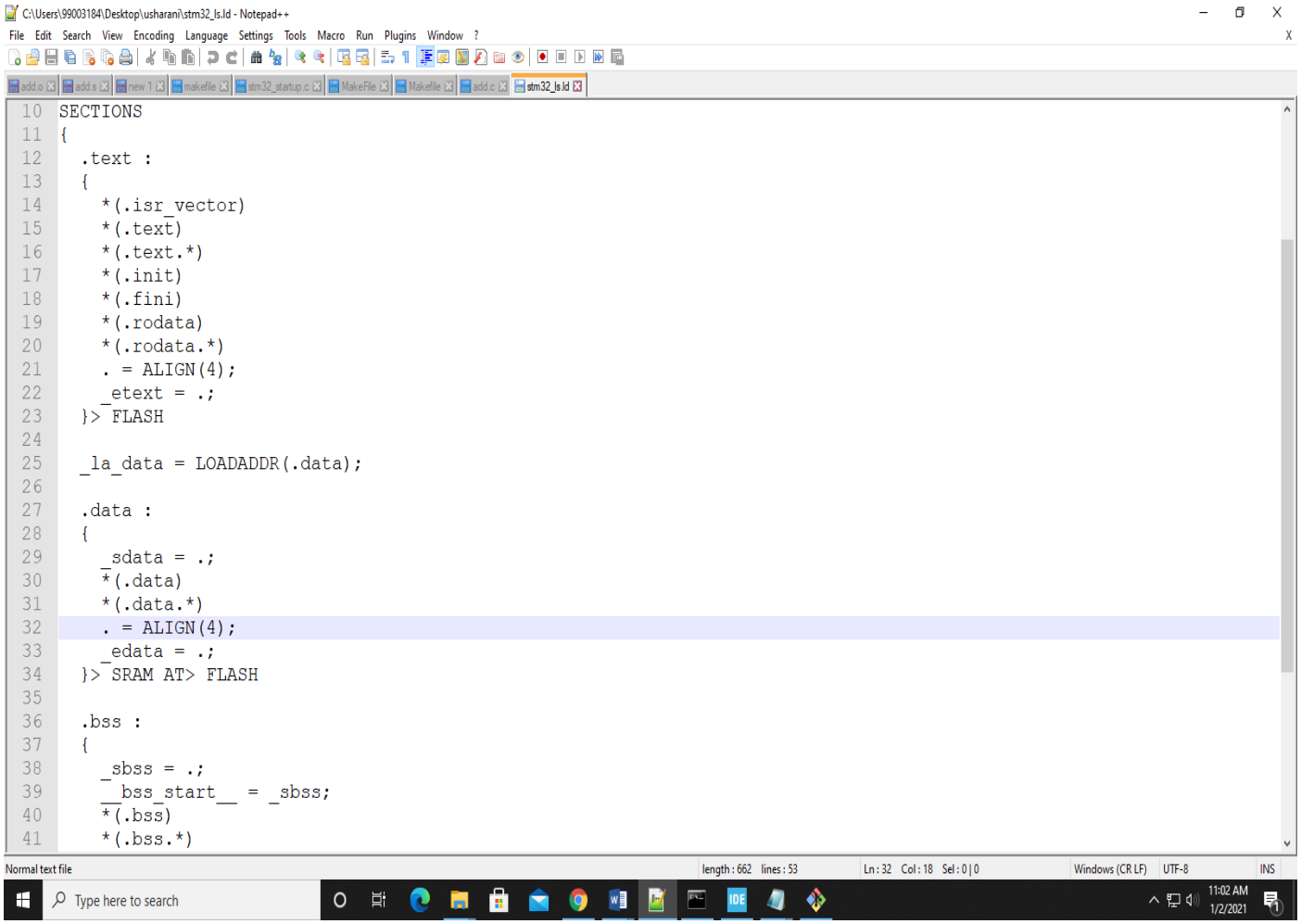


Make file for build process:



Activity-2:

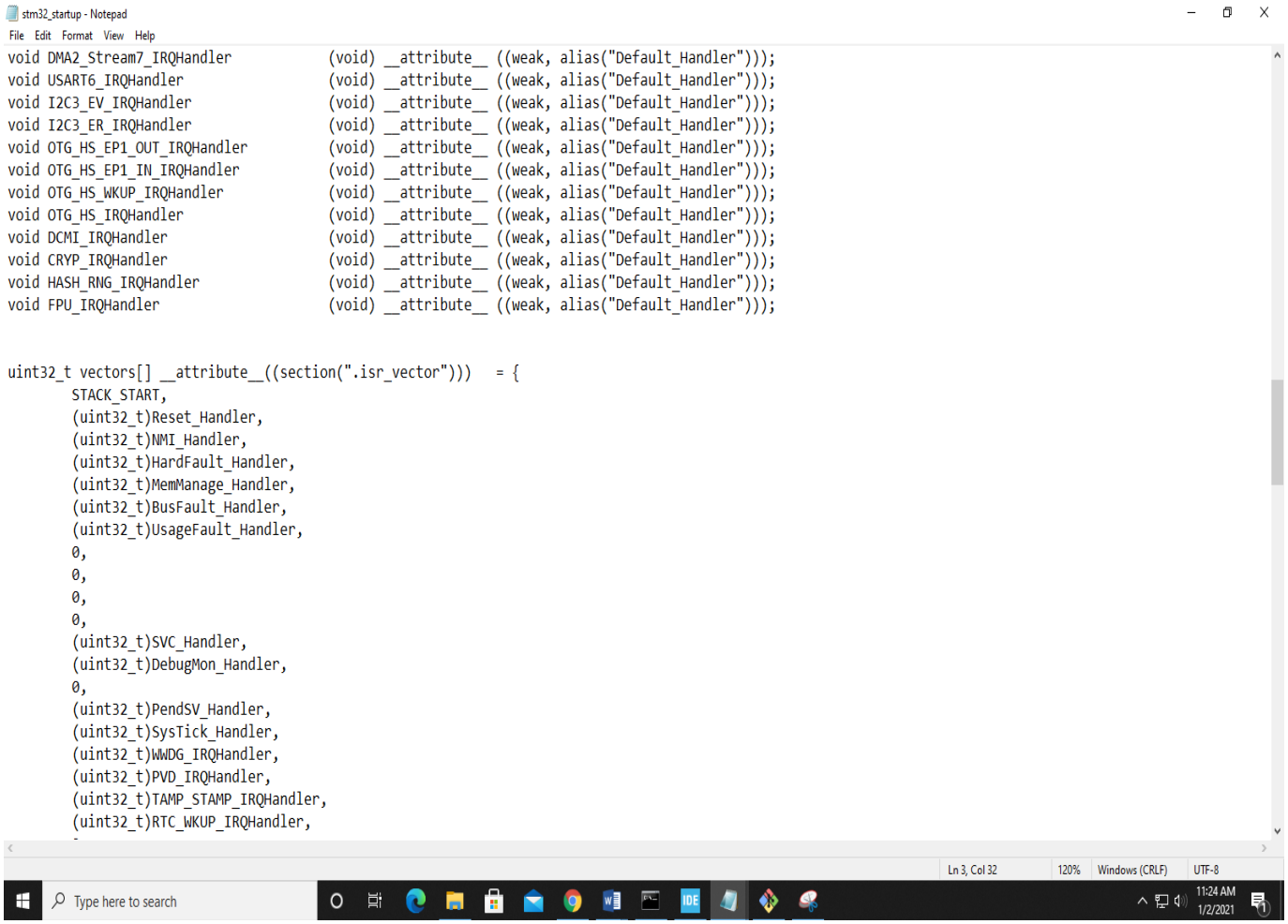
Linker Script:



Activity-3:

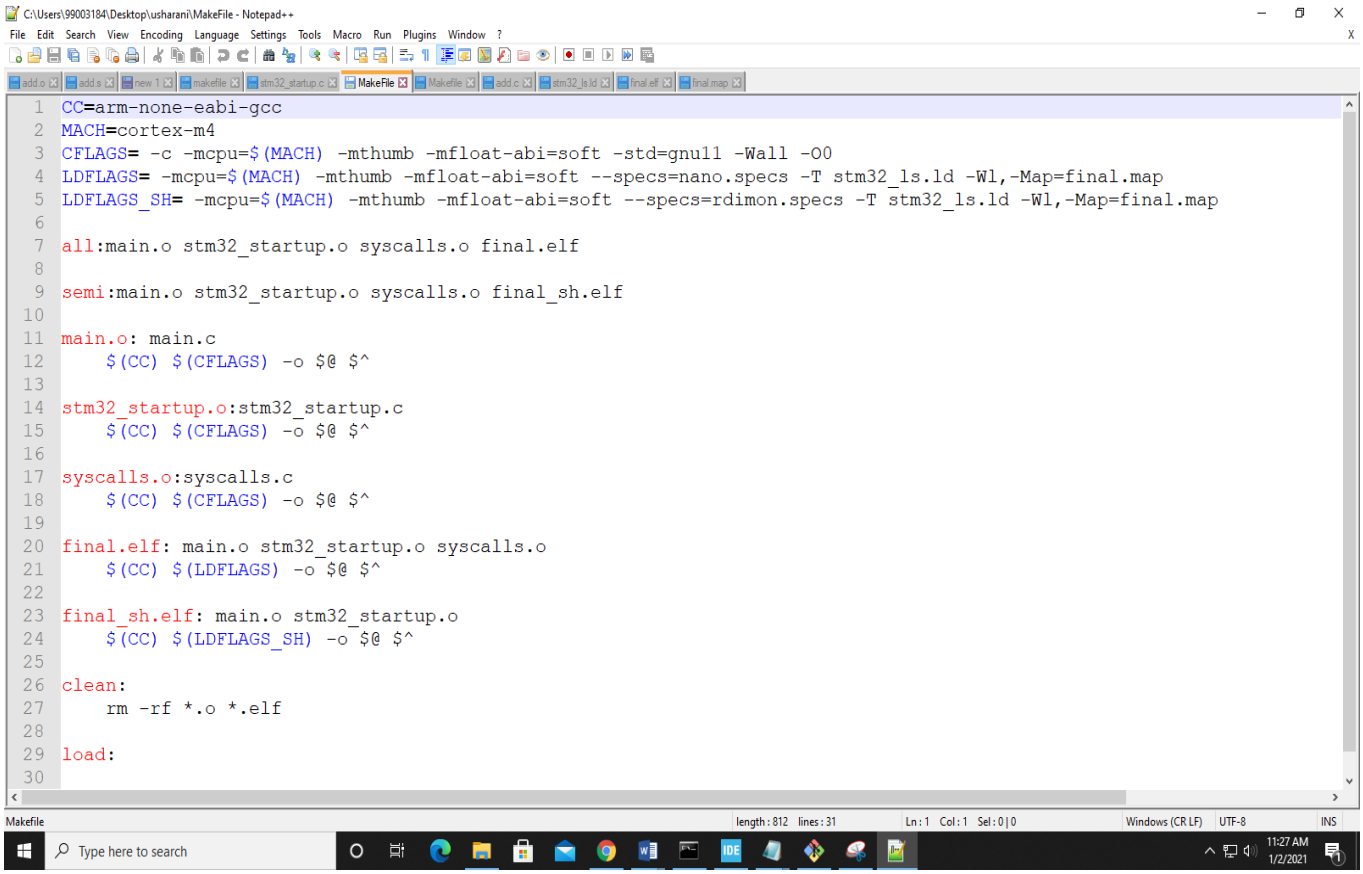
Start-up Code:

Various Address of Interrupt Subroutine Vectors (ISR) and its priorities of ISR's:



Activity-4:

Make file:



Mini Project
Main logic function:

```
  /* Infinite loop */
  /* USER CODE BEGIN WHILE */
  while (1)
  {
    /* USER CODE END WHILE */

    /* USER CODE BEGIN 3 */
      buffer_tx = HAL_GPIO_ReadPin(PIR_Read_Pin_GPIO_Port, PIR_Read_Pin_Pin);
      if(buffer_tx == 1)
      {
          HAL_GPIO_WritePin(Orange_led_GPIO_Port, Orange_led_Pin, 1);
      }
      else
      {
          HAL_GPIO_WritePin(Orange_led_GPIO_Port, Orange_led_Pin, 0);
      }
      HAL_SPI_Transmit(&hspi1, &buffer_tx, 1, 100);
  }
  /* USER CODE END 3 */
}

/**
```