```
Name- Sharwari Daware
```

Shift 2 Track 2

```
CODE:
```

```
/* USER CODE END 2 */
  /* Infinite loop */
  /* USER CODE BEGIN WHILE */
  while (1)
    /* USER CODE END WHILE */
    /* USER CODE BEGIN 3 */
        HAL_UART_Receive(&huart1, rcv, 10, 10000);
        if(*rcv=='1')
               HAL_GPIO_WritePin(myled1_GPIO_Port, myled1_Pin, 1);
               HAL UART Transmit(&huart1, msg1, sizeof(msg1), 10000);
        }
        if(*rcv=='2')
               {
                      HAL GPIO WritePin(myled1 GPIO Port, myled1 Pin, 1);
                      HAL_UART_Transmit(&huart1, msg1, sizeof(msg1), 10000);
                     HAL_GPIO_WritePin(myled2_GPIO_Port, myled2_Pin, 1);
                     HAL_UART_Transmit(&huart1, msg2, sizeof(msg2), 10000);
               }
        if(*rcv=='3')
                      {
                            HAL GPIO WritePin(myled1 GPIO Port, myled1 Pin, 0);
                             HAL_GPIO_WritePin(myled2_GPIO_Port, myled2_Pin, 0);
                            HAL_UART_Transmit(&huart1, msg3, sizeof(msg3), 10000);
                      }
        if(*rcv=='4')
                            {
                                   while(1)
                                   {
                                          /*HAL GPIO WritePin(led1 GPIO Port,
led1_Pin, 1);
```

```
HAL GPIO WritePin(led2 GPIO Port, led2 Pin,
1);
                                          HAL Delay(1000);
                                          HAL_GPIO_WritePin(led1_GPIO_Port, led1_Pin,
0);
                                          HAL_GPIO_WritePin(led2_GPIO_Port, led2_Pin,
0);*/
                                          HAL_GPIO_TogglePin(myled1_GPIO_Port,
myled1_Pin);
                                          HAL_GPIO_TogglePin(myled2_GPIO_Port,
myled2 Pin);
                                          HAL_Delay(1000);
                                          HAL UART Transmit(&huart1, msg4,
sizeof(msg4), 10000);
                                    }
                             }
   * USER CODE END 3 */
```

```
targetmcu - Assignment5/Core/Src/main.c - STM32CubeIDE
File Edit Source Refactor Navigate Search Project Run Window Help
E 🧝 | i→ 🖇 🗀 🔤 Assignment5.ioc 🕒 main.c 🗵

♦ Debug 
☐ Project Explorer

                                            74 {

▼ Massignment5 [STM32 Cortex-M C/C++ Application]

                                            75
                                                 /* USER CODE BEGIN 1 */
  76
      Thread #1 [main] 1 [core: 0] (Running)
                                                 /* USER CODE END 1 */
                                            77
    🗸 arm-none-eabi-gdb (8.3.1.20191211)
                                            78
    ST-LINK (ST-LINK GDB server)
                                            79
                                                 /* MCU Configuration
                                                                       COM3 - Tera Term VT
                                            80
                                            81
                                                  /* Reset of all peri File Edit Setup Control Window Help
                                            82
                                                 HAL_Init();
                                                                     Hi, Welcome to UART !!
                                            83
                                                 /* USER CODE BEGIN ILED1 ON
                                            84
                                            85
                                                 /* USER CODE END Ini LED1
                                            86
                                            87
                                                 /* Configure the sys BOTH LED OFF
                                            88
                                            89
                                                 SystemClock_Config()
                                            90
                                            91
                                                 /* USER CODE BEGIN
                                            92
                                            93
                                                 /* USER CODE END Sy
                                            94
                                            95
                                                  /* Initialize all co
                                                 MX_GPIO_Init();
                                            96
                                            97
                                                 MX_USART1_UART_Init
                                            98
                                                 /* USER CODE BEGIN
                                            99
                                                 HAI HART Transmit (&h
                                           □ Console ⋈ Problems  Executables  Debugger Console  Memory
                                          Assignment5 [STM32 Cortex-M C/C++ Application]
```





