#include "stm32c0xx\_hal.h"

int main(void)

{

// Initialize HAL library

HAL\_Init();

// Configure the system clock

SystemClock\_Config();

// Enable GPIO Clock

\_\_HAL\_RCC\_GPIOA\_CLK\_ENABLE();

// Configure GPIO pin

GPIO\_InitTypeDef GPIO\_InitStruct;

GPIO\_InitStruct.Pin = GPIO\_PIN\_13;

GPIO\_InitStruct.Mode = GPIO\_MODE\_OUTPUT\_PP;

GPIO\_InitStruct.Pull = GPIO\_NOPULL;

GPIO\_InitStruct.Speed = GPIO\_SPEED\_FREQ\_LOW;

HAL\_GPIO\_Init(GPIOA, &GPIO\_InitStruct);

// Turn on the LED

HAL\_GPIO\_WritePin(GPIOA, GPIO\_PIN\_13, GPIO\_PIN\_SET);

while (1)

{

// Application code can be added here

}

}

// System Clock Configuration

void SystemClock\_Config(void)

{

RCC\_OscInitTypeDef RCC\_OscInitStruct = {0};

RCC\_ClkInitTypeDef RCC\_ClkInitStruct = {0};

// Configure the Oscillator to use HSI (16MHz)

RCC\_OscInitStruct.OscillatorType = RCC\_OSCILLATORTYPE\_HSI;

RCC\_OscInitStruct.HSIState = RCC\_HSI\_ON;

RCC\_OscInitStruct.HSICalibrationValue = RCC\_HSICALIBRATION\_DEFAULT;

if (HAL\_RCC\_OscConfig(&RCC\_OscInitStruct) != HAL\_OK)

{

// Initialization Error

while(1);

}

// Configure the PLL

RCC\_ClkInitStruct.ClockType = RCC\_CLOCKTYPE\_SYSCLK;

RCC\_ClkInitStruct.SYSCLKSource = RCC\_SYSCLKSOURCE\_HSI;

if (HAL\_RCC\_ClockConfig(&RCC\_ClkInitStruct, FLASH\_LATENCY\_0) != HAL\_OK)

{

// Initialization Error

while(1);

}

}

