Student Name : W.K.G.K Jayawardana

Student Number : EC/2021/006

Partner Name : S.M.A.D.R Pabasarani

Partner Number : EC/2021/007

Date Performed : 30/05/2025

Date of Submission : 30/05/2025

Experiment No: 09

BECS 31421

**INTERFACING 7-SEGMENT DISPLAY**

**Exercise 01**

**SOURCE CODE**

const unsigned char numbers[10] = {0x3F, 0x06, 0x5B, 0x4F, 0x66,0x6D, 0x7D, 0x07, 0x7F, 0x6F};

int stop = 0;

int count =-1;

void main(){

TRISA = 0b00000001;

TRISB = 0b10000000;

PORTA = 0x00;

PORTB = 0x00;

while(1) {

if(PORTB.RB7 == 1 && stop == 0){

count=count+2;

if(count > 9){

count = 1;

}

PORTB = numbers[count];

stop = 1;

Delay\_ms(100);

}

else if (PORTB.RB7 == 0){

stop = 0;

}

}

}

**SIMULATION SCREENSHOTS**

**A computer diagram of a computer

AI-generated content may be incorrect.**

**A computer screen shot of a computer

AI-generated content may be incorrect.**

**A computer screen shot of a diagram

AI-generated content may be incorrect.**

**A computer screen shot of a diagram

AI-generated content may be incorrect.**

**A computer screen shot of a computer

AI-generated content may be incorrect.**