

Experiment No: 09

BECS 31421

# **INTERFACING 7-SEGMENT DISPLAY**

## **Exercise 01**

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## **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





