EXERCISE 06

Source Code

```
sbit Brake at RA2_bit;
char forwardDone = 0;
void main() {
    CMCON = 0x07;
    TRISA = 0 \times 07;
    TRISB = 0x00;
    PORTB = 0 \times 00;
    while(1) {
         if (!Forward && forwardDone == 0 ) {
             PORTB = 0 \times 00;
             RB0_bit = 1;
             RB1_bit = 0;
             RB2\_bit = 1;
             // Wait 10 seconds
             Delay_ms(1000);
             PORTB = 0x00; // Stop motor
         }
         else if (!Reverse) {
             PORTB = 0 \times 00;
             RB0_bit = 1;
             RB1_bit = 1;
             RB2\_bit = 0;
         }
         else if (!Brake) {
             PORTB = 0x00;
         }
    }
}
```

```
sbit Forward at RAO bit;
sbit Reverse at RAl_bit;
sbit Brake at RA2_bit;
char forwardDone = 0;
void main() {
    CMCON = 0x07;
   TRISA = 0x07;
   TRISB = 0x00;
    PORTB = 0x00;
   while(1) {
        if (!Forward && forwardDone == 0 ) {
           PORTB = 0x00;
           RB0 bit = 1;
           RB1 bit = 0;
           RB2 bit = 1;
           // Wait 10 seconds
            Delay_ms(10000);
           PORTB = 0x00; // Stop motor
        else if (!Reverse) {
           PORTB = 0x00;
           RB0 bit = 1;
           RB1 bit = 1;
           RB2 bit = 0;
        else if (!Brake) {
          PORTB = 0x00;
```

<u>Circuit</u>

