Using Subroutines in PBASIC

```
' {$STAMP BS2}
' {$PBASIC 2.5}

counter VAR Word

GOSUB forward
GOSUB right_turn
GOSUB forward
GOSUB right_turn
GOSUB forward
GOSUB right_turn
END

forward:
    FOR counter = 1 TO 50
        PULSOUT 13, 850          'left wheel CCW
        PULSOUT 12, 650          'right wheel CW
        PAUSE 20
    NEXT
    RETURN

right_turn:
    FOR counter = 1 TO 20
        PULSOUT 13, 850          'left wheel CCW for right turn
        PAUSE 20
    NEXT
    RETURN
```

GOSUB – RETURN provides for a "cleaner" program

Put END after the subroutine calls

FOR – NEXT loop executes 50 times

Changing the limits of the FOR statement changes the distance traveled