ME 1030-02

BOE BOT TASK 1

BOE BOT Collected Assignment #1

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This was assignment was to give me the basics of the programming language that the BOE BOT uses. I did a series of do loops that pulse a output on the bread board at various increments and also showed how debug runs from the BOE BOT.

SKILLS

- Print screen

- Ideas from other computer languages I know

PROBLEMS & SOLUTIONS

- NONE

```
1  ' {$STAMP BS2}
2  ' {$PBASIC 2.5}
3
4  ' Nicholas A. Smith
5  ' ME 1030-02  ~ Program 2A  - Program2a.bs2
6
7  DEBUG "Hello Nick, this is a messge from your Boe-Bot.", CR
8
9  END
```

```
1  ' {$STAMP BS2}
2  ' {$PBASIC 2.5}
3
4  ' Nicholas A. Smith
5  ' ME 1030-02  ~ Program 3E  - Program3E.bs2
6
7  DEBUG "Turning ON and OFF an LED using the PULSOUT"
8
9  DO
10   HIGH 13  'RED     ON
11   PAUSE 100
12
13   LOW 13   'RED     OFF
14   PAUSE 10000
15 LOOP
```

```
1  ' {$STAMP BS2}
2  ' {$PBASIC 2.5}
3
4  ' Nicholas A. Smith
5  ' ME 1030-02  ~ Program 3E  - Program3E.bs2
6
7  DEBUG "Turning ON and OFF an LED using the PULSOUT"
8
9  DO
10   HIGH 13  'RED     ON
11   PAUSE 100
12
13   LOW 13   'RED     OFF
14   PAUSE 10000
15 LOOP
```

```
1   ' {$STAMP BS2}
2   ' {$PBASIC 2.5}
3
4   ' Nicholas A. Smith
5   ' ME 1030-02  ~ Program 3B  - Program3B.bs2
6
7   DEBUG "The LED connected to Pin 13 is blinking!"
8
9   DO
10    HIGH 13
11    PAUSE 500
12    LOW 13
13    PAUSE 500
14  LOOP
```

```
1   ' {$STAMP BS2}
2   ' {$PBASIC 2.5}
3
4   ' Nicholas A. Smith
5   ' ME 1030-02  ~ Program 3C  - Program3C.bs2
6
7   DEBUG "The LED connected to Pin 13 and 12 is blinking!"
8
9   DO
10    HIGH 12
11    LOW 13
12    PAUSE 2000
13
14    HIGH 13
15    LOW 12
16    PAUSE 2000
17  LOOP
```

```
1    ' {$STAMP BS2}
2    ' {$PBASIC 2.5}
3
4    ' Nicholas A. Smith
5    ' ME 1030-02  ~ Program 3D  - Program3D.bs2
6
7    DEBUG "The LED connected to Pin 13, 12 and 11 are now acting like a Traffic light!"
8
9    DO
10     HIGH 11  'Green     ON
11     LOW  12  'Yellow    OFF
12     LOW  13  'Red       OFF
13     PAUSE 10000
14
15     HIGH 12   'Yellow   ON
16     LOW  11   'Green    OFF
17     LOW  13   'Red      OFF
18     PAUSE 1000
19
20     HIGH 13   'Red      ON
21     LOW  11   'Green    OFF
22     LOW  12   'Yellow   OFF
23     PAUSE 7000
24   LOOP
```

```
1    ' {$STAMP BS2}
2    ' {$PBASIC 2.5}
3
4    ' Nicholas A. Smith
5    ' ME 1030-02  ~ Program 3E  - Program3E.bs2
6
7    DEBUG "Turning ON and OFF an LED using the PULSOUT"
8
9    DO
10     HIGH 13  'RED      ON
11     PAUSE 100
12
13     LOW 13   'RED      OFF
14     PAUSE 10000
15   LOOP
```

I learned how comments are produced in this language, different than what many other languages use. This type of activity will be done in circuit analysis and will be helpful to know what type of electrical lines go where on a basic bread board. I can't really say what would be better to do to understand the basics of how it works.