

COMPUTER PROGRAMMING

LECTURE QBASIC COMMANDS

**DR. USMAN AKMAL
DR. SANA AMIR
ENGR. KHAWAJA ALI**

**DEPARTMENT OF CIVIL ENGINEERING
UNIVERSITY OF ENGINEERING AND TECHNOLOGY,
LAHORE**



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- ❑ **LOCATE** Command
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LOCATE COMMAND FORMAT

LOCATE [Row Number]

OR

LOCATE [,Column Number]

OR

LOCATE [Row No.][,Column No.]

EXAMPLES FOR USING LOCATE COMMAND

LOCATE 7,1 `Cursor will move to 7th row and 1st column
PRINT "CIVIL ENGINEERING" ` Print will start from 7th row and
0th column

LOCATE 10,35 `Cursor will move to 10th row and 35th
column
PRINT "CIVIL ENGINEERING" ` Print will start from 10th
row and 35th column

LOCATE 12 `Cursor will move to 12th row and 0th column
PRINT "CIVIL ENGINEERING" ` Print will start from 12th
row and 1st column

LOCATE ,12 `Cursor will move to 13th row and 12th
column
PRINT "CIVIL ENGINEERING" ` Print will start from 13th
row and 12th column

COLOR COMMAND FORMAT

COLOR [foreground]

OR

COLOR[,background]

OR

COLOR [foreground] [,background]

COLOR INDICES FOR FOREGROUND AND BACKGROUND

There are 16 colors in QB, numbered from 0 to 15.

INDEX	COLOR	INDEX	COLOR
0	Black	8	Dark Grey (Light Black)
1	Blue	9	Light Blue
2	Green	10	Light Green
3	Cyan	11	Light Cyan
4	Red	12	Light Red
5	Purple	13	Light Purple
6	Brown/Orange	14	Yellow (Light Orange)
7	Light Grey (White)	15	White (Light White)

COLOR INDICES FOR BLINKING FOREGROUND

INDEX	COLOR	INDEX	COLOR
16	Black	24	Dark Grey (Light Black)
17	Blue	25	Light Blue
18	Green	26	Light Green
19	Cyan	27	Light Cyan
20	Red	28	Light Red
21	Purple	29	Light Purple
22	Brown/Orange	30	Yellow (Light Orange)
23	Light Grey (White)	31	White (Light White)

The blinking option is not available for the background, only for the text (foreground).

EXAMPLES FOR USING COLOR COMMAND

COLOR 7,0 'Uses the default white on black.

COLOR 15,0 'Bright white on black.

COLOR 0,1 'Black on blue

COLOR 14,0 'Bright yellow.

EXAMPLES FOR USING COLOR COMMAND

COLOR 1

```
PRINT "SESSION 2013"
```

```
PRINT
```

COLOR 0

COLOR ,7

```
PRINT "SESSION 2013"
```

```
PRINT
```

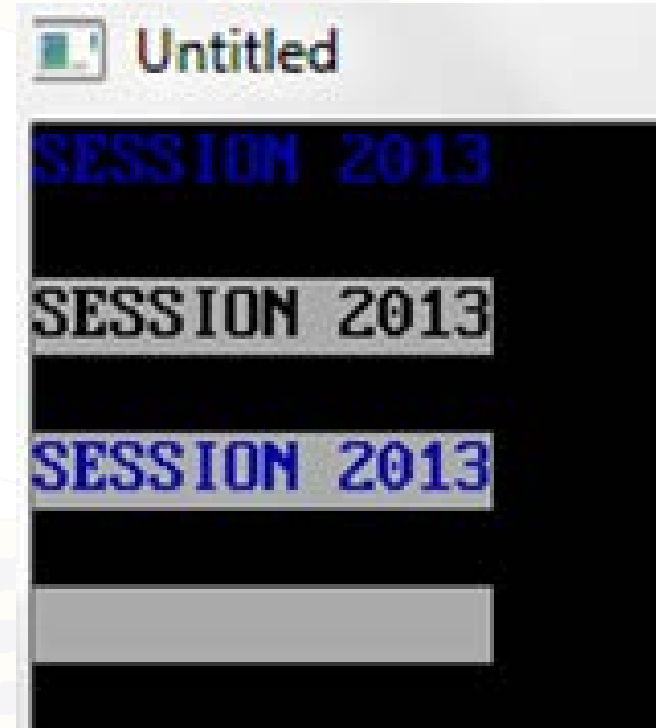
COLOR 1,7

```
PRINT "SESSION 2013"
```

```
PRINT
```

COLOR 17,7

```
PRINT "SESSION 2013"
```



IMPORTANT POINTS TO USE COLOR COMMAND

- ❑ Background colors are available in SCREEN modes 0, 1, 7, 8 and 9 only.
- ❑ SCREEN mode 10 has only 3 white foreground attributes including flashing.
- ❑ SCREEN modes 12 and 13 can use the foreground parameter only.
- ❑ SCREEN modes 2 and 11 cannot use the COLOR keyword as they are monochrome with white foreground!
- ❑ An illegal function error will occur if a background color is used in other screen modes!
- ❑ To change the background color only, use a comma and the color.

SCREEN COMMAND FORMAT

SCREEN [Screen Mode Number]

This command is used for displaying graphics on the screen. There are ten main types of screen modes that can be used in QBasic depending on the resolution that you want. Here is a list of what screen modes you can choose from:

SCREEN MODES

Here is a list of what screen modes you can choose from

SCREEN 0: Text mode, cannot be used for graphics. This the screen mode that text based programs run on.

SCREEN 1: 320 x 200 Resolution. Four Colors

SCREEN 2: 640 x 200 Resolution. Two Colors (Black and White)

SCREEN MODES (contd.)

SCREEN 7: 320 x 200 Resolution. Sixteen Colors

SCREEN 8: 640 x 200 Resolution. Sixteen Colors

SCREEN 9: 640 x 350 Resolution. Sixteen Colors

SCREEN 10: 640 x 350 Resolution. Two Colors
(Black and White)

SCREEN 11: 640 x 480 Resolution. Two Colors

SCREEN 12: 640 x 480 Resolution. Sixteen Colors

SCREEN MODES (contd.)

SCREEN 13: 320 x 200 Resolution. 256 Colours.
(Recommended)

NOTE: In SCREEN 13 you have a color Palette of 256 colors. The PALETTE is pre-set by Windows however you can change the RGB values using the PALETTE command.

AVAILABLE SPACE IN DIFFERENT SCREEN MODES

MODE	No. of ROWS	No. of COLUMNS
0	25	80
1	25	40
2	25	80
7	25	40
8	25	80
9	25	80
10	25	80
11	30	80
12	30	80
13	25	40

The background features a large, light blue watermark of the University of Engineering and Technology logo. The logo is circular with a gear-like outer edge. Inside the circle, there is an open book with a yellow glow behind it. Below the book are several wavy horizontal lines. The text 'UNIVERSITY OF ENGINEERING AND TECHNOLOGY' is written along the top inner edge of the circle, and 'LAHORE' is written along the bottom inner edge, separated by dots.

END OF LECTURE