COMPUTER PROGRAMMING

LECTURE
QBASIC COMMANDS - 2

DR. USMAN AKMAL

DEPARTMENT OF CIVIL ENGINEERING
UNIVERSITY OF ENGINEERING AND TECHNOLOGY,
LAHORE

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- **`PRINT USING`** Command

PRINT USING COMMAND

It prints strings or numbers using a specified format. Following is the syntax of PRINT USING command

```
PRINT USING formatstring; expressionlist [{,:;}]
```

formatstring is a string-expression, specifies the format.

expressionlist contains the items to be printed.

Optional "," or ";" at the end of the expression list are cursor controls

FORMATSTRING CHARACTERS USE TO FORMAT NUMERIC EXPRESSION

#	**Digit position**
.	Decimal point position
,	Placed left of the decimal point, prints a comma every third digit
$$	Prints leading $ sign
+	Position of number's sign
**	Fills leading spaces with *
^^^^	Print number in exponential format
**$	Combines ** and $
-	Placed after digit position's, prints trailing sign for negative numbers only

FORMATSTRING CHARACTERS USE TO FORMAT STRING EXPRESSION

&	**Prints entire string**
!	Prints only the first character of the string
\ \	Prints first "n" characters, where "n" is the number of spaces between backslashes + 2

FOR BOTH STRING AND NUMERIC EXPRESSION	
_	Prints the following formatting character as a text

NOTE: Any character not in the tables is printed as a text.

EXAMPLES FOR FORMATING STRINGS

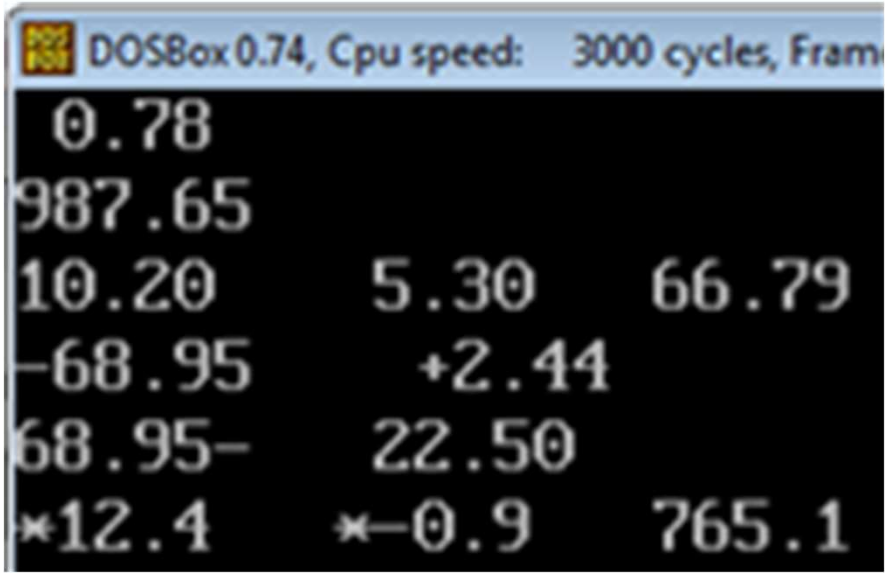
```
CLS
A$ = "Look" : B$ = "Out"
'to print first character of A$ and B$
PRINT USING "!"; A$; B$

'to print first four characters
'there are two spaces b/w backslashes
PRINT USING "\  \"; A$; B$

PRINT USING "\  \"; A$; B$; "!!"
'prints LookOut !!
```

EXAMPLES FOR FORMATING STRINGS

```
PRINT USING "!"; A$;
PRINT USING "&";B$
'prints first character of A$ and all
of B$ on one line
```

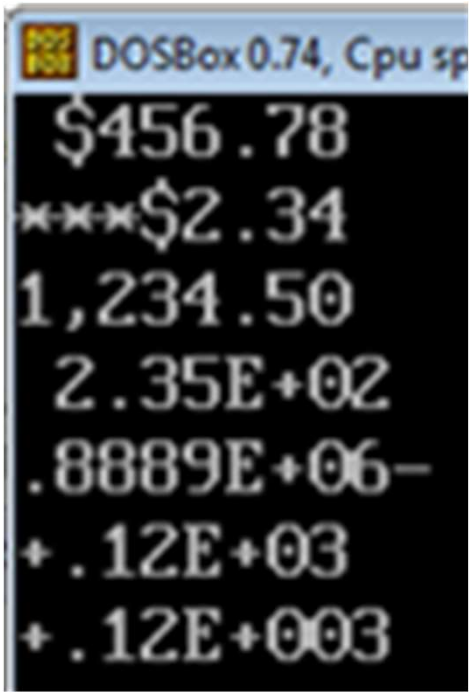
EXAMPLES FOR FORMATING NUMBERS

```
PRINT USING "##.##"; .78
PRINT USING "###.##"; 987.654
PRINT USING "##.##"; 10.2; 5.3; 66.789
PRINT USING "+##.##"; -68.95; 2.439
PRINT USING "##.##-"; -68.95; 22.499
PRINT USING "**#.#"; 12.39; -.9; 765.1
```



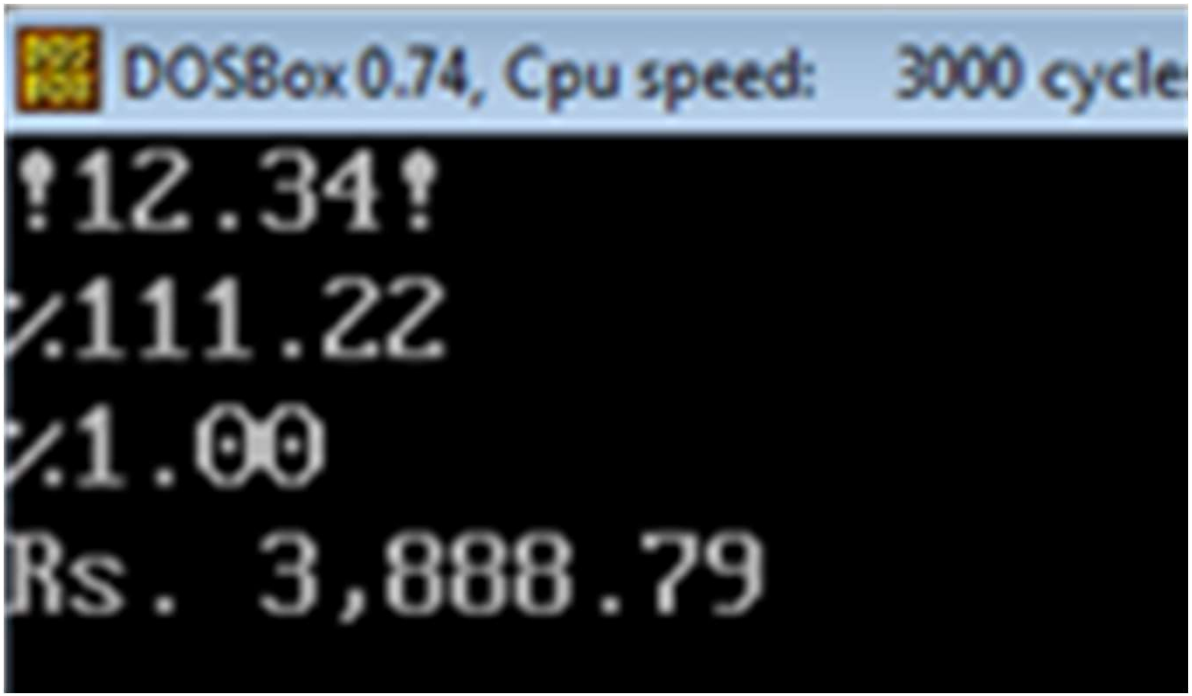
EXAMPLES FOR FORMATING NUMBERS

```
PRINT USING "$$###.##"; 456.78
PRINT USING "**$##.##"; 2.34
PRINT USING "####,.##"; 1234.5
PRINT USING ".####^^^^"; -888888
PRINT USING "+.##^^^^"; 123
PRINT USING "+.##^^^^^"; 123
```



EXAMPLES FOR FORMATING NUMBERS

```
PRINT USING "_!##.##_!"; 12.34
PRINT USING "##.##"; 111.22
PRINT USING ".##"; .999
PRINT USING "_R_s_.#####,.##";3888.789
```



Code	Explanation	Output
PRINT USING "|######|"; 9146	Numbers print right-justified	| 9146|
PRINT USING "#####.##"; 2652.2	Always prints two decimal places	2652.20
PRINT USING "#####.##"; 2652.212	Round is needed	2652.21
PRINT USING "+###"; 45	Always prints plus or minus	+45
PRINT USING "+###"; -45	Always prints plus or minus	-45
PRINT USING "###+"; 45	Prints the sign at the end	45+
PRINT USING "###-"; 45 PRINT USING "###-"; -45	Only prints the sign at end if negative	45 45-
PRINT USING "**####.##"; 2.5	Left and right fills with asterisks	*****2.50
PRINT USING "$$####.##"; 2.5	Floating dollar sign	$2.50
PRINT USING "**$###.##"; 2.5	Combine the tow for checks	****$2.50
PRINT USING "######,.##"; 3234.54	A comma before the decimal	3,234.54
PRINT USING "####,.##, "; 3234	Repeating format string	3,234.00
PRINT USING "#.##^^^^"; 0.00012	Scientific notation	0.12E-03
PRINT USING "#.##^^^^^"; 0.00012	More precision	0.12E-003
PRINT USING "###"; 43567.54	Not enough control codes	%43568
PRINT USING "_#_###.##_#_#"; 32.45	Illustrates printing of literals	##32.45##

END OF LECTURE