

# ENGR 1120 Lecture Chapter 1 - Command Window Input and Output

- **basic command window output ;**

- by default each line of code (expression or assignment) will print to the C.W.

- however the *semicolon* is used to *suppress* the output

- **example:**

```
>>x=10;
```

- the default output can be configured using the format command

```
>>format compact
```

```
>>format long
```

```
>>format loose
```

```
>>format short
```

note: I will not be using the *format* command, you can look into if you wish

- **2 new useful functions**

- **the *fprintf()* function**

- \* similar to the C library function
    - \* complete control of the *command window output*
    - \* also used with *file output*, formatted **print** to **file**
    - \* results in a formatted *string*, character level control
    - \* **example:**

The lines below goes in your code.

```
my_var=97.563;  
fprintf('The value is %f ',my_var)
```

The following output will appear in the command window.

```
>>The value is 97.563
```

Can you tell what happened?

- more about the *fprintf()* function

*' % feild width . precision f '*

\* *Data Type* of the value

\* *Field Width*

\* *Precision*

- escape sequences and the *fprintf()* function

\* \a

\* \b

\* \n

\* \r

\* \t

\* //

\* \'

\* \\' '

- **the *input()* function**
  - \* adds a simple user interface to your program
  - \* you type *command window input*
  - \* the input can be stored as a variable
  - \* **example:**

The line below goes in your code,

```
x=input( 'Please type A number ' )
```

and then the text will appear in the command window.

```
>>Please type A number
```

Now the user can type a value (shown in red below) followed by the *Enter* key.

```
>>Please type A number 42.7
```

Now you can see the value 42.7 is stored in the variable x.