CSE 101 Lecture 7

<u>Lecture – 7</u>

Expression: An expression is the combination of functions, operators, commas, variables, identifiers etc. Ex: x = 0, x + +.

Statement: An expression as x = 0, x + + or printf(...) becomes a statement when it is followed by a semicolon(;) as in

```
x + +; x =
0;
printf(...);
```

Braces { and } are syntactically equivalent to a single statement.

if ... else: if ... else statement is used to express decisions. Formally the syntax is:

```
if (expression)
statement1
else
statement2
```

Here the else part is optional. The expression inside if ... else statement expects a value. If the value is nonzero then it is true. If the value is 0 then it is false.

```
Example 1:
    void main(void)
    {
        int x ,y=0, a=2, b=3;
        if(y>0)
            x = a;
        else
            x = b;
        printf("%d",x);
    }

Example 2:
    void main(void)
    {
        int x =1;
        if(x --)
            printf("Hellow");
        printf("friend");
    }
```

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```
Example 3:
       void main(void)
                                                                    Hellow
       int x = 1;
       if(x - -)
            printf("Hellow");
       if(x + +)
            printf(" everyone");
else ... if:
       if(expression 1)
               statement 1
       else if(expression 2)
               statement 2
       else if(expression 3)
               statement 3
       else
               statement n
```

else ... if checks its expression sequentially. When it found one expression is true then it will not check other expressions within that else ... if block.

```
Example 1:

void main(void)
{

int x = 2;

if(x - -)

printf("1");

else if(x - -)

printf("2");

else if(x - -)

printf("3");

else

printf("None");

printf("%d",x);
}
```

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```
Example 2:
       void main(void)
       int x = 1;
       if(x - -)
                                                                    134 -3
            printf("1");
       if(x - -)
            printf("2");
       else if(x - -)
            printf("3");
       if(x - -)
            printf("4");
       printf("%d",x);
Example 3:
       void main(void)
                                                                    Nothing
       int x = 0, y = 1;
       if(x = 0)
            if(y = =2)
                 printf("Hellow");
            else
                 printf("Welcome");
       printf("Nothing");
Example 4:
       void main(void)
                                                                    Hellow
                                                                    Something
       int x = 0;
       if(x = 0)
            printf("Hellow\n");
       printf("Something\n");
```

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