CSE1101 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.

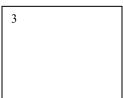
if ... else: if ... else statement is used to express decisions. Formally the syntax is:

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



Hellow friend

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```
Example 3:
       void main()
                                                                     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() {

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");
                printf("Welcome");
       printf("Nothing");
Example 4:
       void main(void)
                                                                  Hellow
                                                                  Something
       int x = 0;
       if(x = 0)
         printf("Hellow\n");
     . printf("Something\n");
```