Faysal Khatri CSC220 -- Activity 1 2017-06-03

#### Part 1: Unix

#### Question 3

- a. Browse to the home directory using cd /home and then list all contents with ls -a
- b. man find
- c. \$PATH
- d. Browns to the bin directory using cd /bin and then list contents beginning with k with ls k\* faysal@DESKTOP-AOGE5FF:/mnt/c/Users/faysa/Dropbox/School/CSC220/Activity1\$ cd /bin faysal@DESKTOP-AOGE5FF:/bin\$ ls k\* kbd\_mode kill kmod
- e. cat \*.lst > alllist.txt
  faysal@DESKTOP-AOGE5FF:/mnt/c/Users/faysa/Dropbox/School/CSC220/Activity1\$ cat \*.lst > alllist.txt
  faysal@DESKTOP-AOGE5FF:/mnt/c/Users/faysa/Dropbox/School/CSC220/Activity1\$ cat alllist.txt
  Bob C
  Sarah Python
  Drew Python
  Jason Java
  Joe C++
  Sue C
  Mike Python
  Karen Unix
  Jason OS/2
  Drew Windows
  Abby Linux
  Sue Mac OS
  Mitch Windows
- f. head -n10 hello.c
  faysal@DESKTOP-AOGE5FF:/mnt/c/Users/faysa/Dropbox/School/CSC220/Activity1\$ head -n10 hello.c
  /\*
   "Hello, world" example
   \*/
  #include<stdio.h>
  int main() {
   printf("Hello, world!\n");
   return 0;

# temps.c

```
#include<stdio.h>
/* symbolic constants */
#define LOWER 0
#define UPPER 100
#define STEP 10
int main() {
  double fahr;
  int celsius;
  for (celsius = LOWER; celsius <= UPPER; celsius+=STEP) {</pre>
    fahr = celsius * 9 / 5 + 32;
    /*
        %4d - print an integer in a 4 character wide column
        \t - tab character
        %6.1 - print a floating point number with 1 decimal point
        \n - newline
    printf("%4d\t%6.1f\n", celsius, fahr);
  return 0;
}
+aysal@DESKTOP-AOGE5FF:/mnt/c/Users/+aysa/Dropbox/School/CSC220/Activity1$ vi temps.c
faysal@DESKTOP-AOGE5FF:/mnt/c/Users/faysa/Dropbox/School/CSC220/Activity1$ gcc temps.c
faysal@DESKTOP-AOGE5FF:/mnt/c/Users/faysa/Dropbox/School/CSC220/Activity1$ ./a.out
         32.0
  0
 10
         50.0
         68.0
  20
         86.0
 30
 40
        104.0
 50
        122.0
 60
        140.0
  70
        158.0
 80
        176.0
 90
        194.0
        212.0
100
```

### countlines.c

```
#include <stdio.h>
int main() {
  int c;
  int nl=0;
  int t=0;
  int s=0;
  int digits[10];
  int i;
  /* initializing digits array to zero */
  for (i=0; i<10; i++) {
    digits[i] = 0;
  while ( (c = getchar()) != EOF) {
     switch (c) {
       case '\n':
         nl++;
         break;
       case '\t':
          t++;
         break;
       case ' ':
         s++;
         break;
       case '0': case '1': case '2': case '3': case '4':
       case '5': case '6': case '7': case '8': case '9':
          digits[c-'0']++; /* c is an ascii character code */
     }
  }
  printf ("There were %d newlines!\n", nl);
  printf ("There were %d tabs!\n", t);
  printf ("There were %d spaces!\n", s);
  for (i=0; i<10; i++) {
    printf ("There were %d %ds!\n", digits[i], i);
  return 0;
}
aysal@DESKTOP-AOGE5FF:/mnt/c/Users/faysa/Dropbox/School/CSC220/Activity1$ vi countlines.c
faysal@DESKTOP-AOGE5FF:/mnt/c/Users/faysa/Dropbox/School/CSC220/Activity1$ gcc -ansi -pedantic -Wall countlines.c
faysal@DESKTOP-AOGE5FF:/mnt/c/Users/faysa/Dropbox/School/CSC220/Activity1$ ./a.out < countlines.c
There were 42 newlines!
There were 1 tabs!
There were 1 cabs:
There were 211 spaces!
There were 12 0s!
There were 4 1s!
There were 1 2s!
There were 1 3s!
There were 1 4s!
here were 1 5s!
There were 1 6s!
There were 1 7s!
There were 1 8s!
There were 1 9s!
faysal@DESKTOP-AOGE5FF:/mnt/c/Users/faysa/Dropbox/School/CSC220/Activity1$
```

## codeflow.c

```
#include <stdio.h>
int main() {
 #define LOWER 1
  #define UPPER 50
 int i;
 int c = 0;
  while (c<LOWER || c>UPPER) {
  scanf("%d", &c);
  }
  for (i=0; i<=c; i++) {
   if ( (i%4 == 0) && (i%8 == 0) ) {
    printf ("%d:\tffffseven\n", i);
    else if (i\%7 == 0) {
    printf ("%d:\tseven\n", i);
    else if (i\%4 == 0) {
     printf ("%d:\tffff \n", i);
    else if (i\%5 == 0) {
    printf ("%d:\t \n", i);
    else {
     printf ("%d:\t%d\n", i, i);
 return 0;
```

```
6:
7:
         6
         seven
8:
         ffffseven
9:
10:
11:
         11
12:
        ffff
13:
         13
14:
         seven
15:
16:
         ffffseven
17:
         17
18:
         18
19:
         19
         ffff
20:
21:
         seven
22:
         22
23:
         23
24:
        ffffseven
25:
26:
         26
27:
         27
28:
         seven
29:
         29
30:
31:
         31
         ffffseven
32:
33:
         33
34:
         34
35:
         seven
         ffff
36:
37:
         37
38:
         38
39:
         39
40:
         ffffseven
41:
         41
42:
         seven
43:
         43
44:
         ffff
45:
46:
        46
47:
         47
48:
         ffffseven
49:
         seven
50:
```