## CIS\*1500 - Assignment Two

#1

#2

**strlen()** returns a integer length of a string not including the null terminator e.g strlen ("dog") returns 3. **Library** -> <**string.h**>

strcat() copies a string (e.g sourceString) to end of another string variable (e.g mainString)
starting at the null terminator. Ex, strcat("hello", "!") returns hello! Library -> <string.h>

**sprintf()** is used to store data as a string. It's also used to create string as output using 'formatted data'. Ex, format —> int sprintf(char \*string, const char, \*form...)

- o \*string represents name of some array that will store output of the formatted data.
- o \*form parameter shows the format of the output ex, %d, %lf, %c.
- Ex, sprintf( stringArray, "The total ice-creams I ate were %d," numCreams) prints "the total ice-creams I ate were 3. Library -> <stdio.h>

**strcpy**() copies a string (e.g sourceString) to e.g (destString) up to and including null character. Ex, (destString, "Martina") --> char destString [7] = {'M', 'a', 'r', 't', 'i', 'n', 'a'}. **Library** -> <**string.h>** 

**isalpha**() returns true if element in text is alphabetical. Ex, isalpha('a') returns true. **Library** -> < ctype.h>

**isupper**() returns true if characters in text is uppercase A to Z. Ex, isupper('B') returns true . **Library** -> <**ctype.h**>

**ispunct()** returns true if the element in text is a punctuation character including, !&\$. Ex, ispunct('!') returns true, ispunct('2') returns false. **Library** -> < ctype.h>

**atoi**() converts a string to an int value. Ex, atoi("234") returns 234 as an int type on which you can do arithmetic operations/calculations. **Library** -> <**stdlib.h**>

**atol**() returns a long int of a string where the function skips all white spaces at the beginning of the string then converts the characters into a num type, then stops when it encounters the first 'characters' that aren't characters. Ex, val = atol("9893933929") returns --> long value = 9893933929. **Library** -> <**stdlib.h**>

**strcmp()** allows two strings to be compared and if both strings are equal the function returns 0 and if not equal returns a non-zero. Ex, if(strcmp("Martina", "John") == 0)

```
{
    (Not Equal)
}
```

Library -> <string.h>

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#3

```
const int MAX_LEN = 5;
char word [] = {'M','O','M', 'M', 'Y'};
   int findM( char word [], const int MAX_LEN)
   {
     for(int i = 0 ; i < MAX_LEN; i++)
        {
        if(word[i] == 'M')
        {
            return i;
            break;
        }
}</pre>
```

```
}
    return -1;
}
```