CSC3320 System Level Programming

Lab Assignment 10 - Post-Lab

Dang Truong

ID- dtruong17

ID# 002420309

Part 1:

1. #include <stdio.h>

#include <stdlib.h>

#include <string.h>

char\* strcpy(char\* strDest, const char\* strSrc){

int i;

for(i = 0; strSrc[i] != '\0'; i++)

strDest[i] = strSrc[i];

strDest[i]= '\0';

return strDest;

}

int main ()

{

char src[]= "My String Pointer”;

char dest[100];

printf("Source string: %s\n", src);

printf("After copying the source string in destination\nDestination string: %s\n",strcpy(dest,src));

return 0;

}

Text

Description automatically generated

2. Char\* is used because the result string is a char array, so to return a char array char\* should be used.

Part 2:

1. **#include<stdio.h>**

**#include<stdlib.h>**  
**#include<string.h>**

**int main()**  
**{**

**char input[21],smallest\_word[21],largest\_word[21];**

**printf("Enter Word: ");**  
**scanf("%s",input);**  
**strcpy(smallest\_word,input);**  
**strcpy(largest\_word,input);**

**while(strlen(input)!=4)**  
**{**

**if(strcmp(input,smallest\_word)<0)**  
**strcpy(smallest\_word,input);**  
**else if (strcmp(input,largest\_word)>0)**  
**strcpy(largest\_word,input);**  
**printf("Enter Word: ");**  
**scanf("%s",input);**  
**}**

**printf("Smallest word: %s\n",smallest\_word);**  
**printf("Largest word: %s\n",largest\_word);**

**return 0;**  
**}**

Text

Description automatically generated