Mahi Berhanu
Lab 10 Post Lab

Part 1:

1.

```c
#include <stdio.h>


int main() {
 char str[200] = "This is Lab 10 of System Programming";
 char dst[200];
 strcpy(dst,str);//calling function into main
 printf("%s\n", dst);
 return 0;
 }
char *strcpy(char *strDest, const char *strSrc){
 while(*strSrc){
   *strDest = *strSrc; //copies what is in the source file to the destination file
   strSrc++; //increment source
   strDest++; // increment destination file
 }
   *strDest = '\0';
   return strDest;
}
```

2. This is because returning a char* will help us nest functions to functions in the string.h library.

Part 2:

1.

```c
#include <stdio.h>
#include <string.h>

int main() {
 int length;
 char word[20];
 char smallest_word[20];
 char largest_word[20];
 while (strlen(word) != 4) { //loop whenever the length of word is not equal to 4
   printf("Enter a word: \n");
   scanf("%s", word);
   if(strcmp(largest_word, word)<0)//compare largest_word to the current word
   strcpy(largest_word,word);//if larger, copy to word
   if(strcmp(smallest_word, word)>0)//compare smallest word to current word
   strcpy(smallest_word,word);//if smaller copy
 }
 //print values
 printf("The Smallest word is: %s \n", smallest_word);
 printf("The Largest word is: %s \n", largest_word);
 return 0;
```

2.