LAB 1
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Q1.

```
#include<stdio.h>
#include<stdlib.h>

int main()
{
   char file_name[20];
   printf("Enter your file name: ");
   scanf("%s", file_name);
   FILE *f1;
   f1=fopen(file_name,"r");
   if(f1==NULL){
      printf("File doesnt exist");
   }
   else {
      char c=fgetc(f1);
      int line=0;
      int ch=0;
      while(c!=EOF){
            if(c=='\n'){
               ++line;
            }
            else {
               ++ch;
            }
            c=fgetc(f1);
      }
      printf("Lines %d Characters %d",line,ch);
      fclose(f1);
      return 0;

   }
   return 0;
}
```

```
Student@dblab-hp-28:~/Desktop/190905442  CD $ cd "/home/Student/Desktop/190905442  CD "
Student@dblab-hp-28:~/Desktop/190905442  CD $ ./"countlinesandcharacters"
Enter your file name: src
Lines 1 Characters 8Student@dblab-hp-28:~/Desktop/190905442  CD $
```

Q2.

```
#include<stdio.h>
#include<stdlib.h>
int main(){
    FILE *f1,*f2;
    char ch, buffer[1024];
    int i=0;
    f1=fopen("src","r");
    f2=fopen("output.txt","w+");
    if(!f1 || !f2){
        printf("File doesnt exist");
    }
    while(ch!=EOF){
        ch=fgetc(f1);
        if(ch!='\n'){
        buffer[i++]=ch;
        }
    }
    printf("File size: %d",i-1);
    for(int j=i-2;j>=0;j--){
        ch=buffer[j];
        fputc(ch,f2);
    }

}
```

Input : hi there

Output : ereht ih

Q3.

```
#include<stdio.h>
#include<stdlib.h>
int main()
{
	FILE *f1, *f2, *f3;
	char c1 , c2;
	f1 = fopen("first", "r");
	f2 = fopen("second", "r");
	f3 = fopen("output1.txt", "w");

	if (!f1 || !f2 || !f3)
	{
		printf("Cant Open File\n");
		exit(1);
	}
	while(1)
	{
		if(c1 != EOF)
		{
			c1 = fgetc(f1);
		while(c1 != '\n')
			{
				if(c1 == EOF)
					break;
				fputc(c1, f3);
				c1 = fgetc(f1);
			}
			fputc('\n', f3);
			if(c1 != EOF)
				fputc('\n', f3);
		}
		if(c2 != EOF)
		{
			c2 = fgetc(f2);
			while (c2 != '\n')
			{
				if(c2 == EOF)
					break;
				fputc(c2, f3);
				c2 = fgetc(f2);
			}
			fputc('\n', f3);
			if(c2 != EOF)
				fputc('\n', f3);
		}
		if(c1 == EOF && c2 == EOF)
			break;
	}
	return 0;
}
```

```
Student@dblab-hp-28:~/Desktop/190905442  CD $ ./"addtwofiles"
Student@dblab-hp-28:~/Desktop/190905442  CD $
```

Input :
First file :
HELLO
HI
THERE
Second file :
world
fine
okay

Output :
HELLO

world

HI

fine

THERE

okay