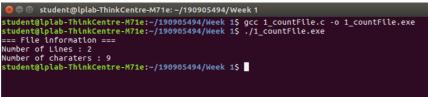
Question 1

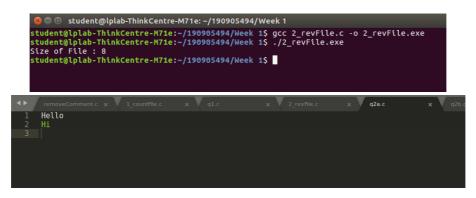
```
// Program to count the number of lines and characters in a file
#include <stdio.h>
int main(){
       FILE *fa;
       int ca, chars=0, lines=1;
       fa = fopen("q1.c", "r");
       if fa == NULL
               printf("Cannot open file \n");
       while(ca != EOF){
               chars++;
               if(ca == '\n')
                      lines++;
               ca = getc(fa);
       }
       printf("===File\ information === \nNumber\ of\ Lines: \%d\nNumber\ of\ charaters: \%d\n",
lines, chars);
       fclose(fa);
       return 0;
}
```





Question 2

```
// Program to count the number of lines and characters in a file
#include <stdio.h>
int main(){
       FILE *fa;
       int ca, chars=0, lines=1;
       fa = fopen("q1.c", "r");
       if fa == NULL
              printf("Cannot open file \n");
       while(ca != EOF){
              chars++;
              if(ca == '\n')
                      lines++;
              ca = getc(fa);
       }
       printf("=== File information === \nNumber of Lines : %d\nNumber of charaters : %d\n",
lines, chars);
       fclose(fa);
       return 0;
}
```





Question 3

```
// Program to merge 2 files alternatively
#include <stdio.h>
int main()
{
       FILE *fa, *fb, *fr;
       fa = fopen("q3a.c", "r");
       fb = fopen("q3b.c", "r");
  fr = fopen("q3res.c", "w+");
       int ca, cb, flag=1;
       ca = getc(fa);
  cb = getc(fb);
  while(ca != EOF && cb != EOF){
     // printf("flag : %d\n", flag);
     if(flag==1){
       while(ca != '\n'){}
          putc(ca, fr);
          ca = getc(fa);
       putc(ca, fr);
       ca = getc(fa);
       flag=2;
     } else {
       while(cb != '\n'){
          putc(cb, fr);
          cb = getc(fb);
       putc(cb, fr);
       cb = getc(fb);
       flag=1;
     }
  }
  while(!feof(fa)){
     putc(ca, fr);
     ca = getc(fa);
  while(!feof(fb)){
     putc(cb, fr);
     cb = getc(fb);
  }
  fclose(fa);
```

```
fclose(fb);
return 0;
}
```

