```
/* FILE (text or binary)*/
// input: io.txt
// output: out.txt
// a console: con (nick name)
// Case 1. user -> con => con (no files are used here) [will not b considered]
// Case 2. user -> con => out.txt
// Case 3. io.txt => out.txt // file copy
// Case 4. io.txt => con
//Case 4.1:
#include <stdio.h>
int main()
{
  FILE *fp; // FILE is a system defined data type. Only for files systems.
  char ch;
  fp=fopen("ram.txt","r"); //ram.txt "hi ayanEOF"
  // "r" reading "w" writing "a" appending
  while(1)
  {
      ch=fgetc(fp);
      if(ch==EOF) break;
      printf("%c",ch);
  }
  fclose(fp);
  return 0;
```

```
//Case 4.2: WAP that will count the no of characters, spaces, new lines, tabs, ',' an so on..
#include <stdio.h>
int main()
{
  FILE *fp; // FILE is a system defined data type. Only for files systems.
  char ch;
  int nos=0, nota=0, nol=0, noc=0, nod=0;
  fp=fopen("ram.txt","r"); //ram.txt "hi, .aya.na dey EOF"
  // "r" reading "w" writing "a" appending
  while(1)
  {
      ch=fgetc(fp);
      if(ch==EOF) break;
      //printf("%c",ch);
      switch(ch)
        case ' ': nos++; break;
        case '\t': notab++; break;
        case '\n': nol++; break;
        case ',': noc++; break;
        case '.': nod++; break;
        default:
      }
  }
  fclose(fp);
```

}

```
printf("No of tabs are %d", nos);
  printf("No of tabs are %d", notab);
  printf("No of tabs are %d", nol);
  printf("No of tabs are %d", noc);
  printf("No of tabs are %d", nod);
  return 0;
}
// Case 3. io.txt => out.txt // file copy
#include <stdio.h>
int main()
{
  FILE *fp; // FILE is a system defined data type. Only for files systems.
  char ch;
  fp=fopen("io.txt","r"); //io.txt "hi ayanEOF"
  if(fp==NULL)
  {
    printf("ERROR: SOURCE FILE NOT FOUND\n");
    exit(1);
  }
  ft=fopen("out.txt","w");
  if(ft==NULL)
    printf("ERROR: TARGET FILE NOT FOUND\n");
    fclose(fp);
    exit(1);
  }
```

```
while(1)
  {
      ch=fgetc(fp);
      if(ch==EOF) break;
      else
       fputc(ch, ft);
  }
  fclose(fp);
  fclose(ft);
  return 0;
}
// Case 2.1. user -> con => out.txt // "Hi how are you" => out.txt
#include <stdio.h>
#include <string.h>
int main()
{
  FILE *fp; // FILE is a system defined data type. Only for files systems.
  char s[100];
  fp=fopen("ram.txt","w");
  if(fp==NULL)
    printf("ERROR: FILE NOT FOUND\n");
    exit(1);
  }
  printf("\nPlease Enter some texts\n");
```

```
while(strlen(gets(s))>0)
  {
      fputs(s,fp);
     fputs("\n",fp);
  }
  fclose(fp);
  return 0;
}
// hi how are you
// r u from kolkata? yes or no? ...
//
// Case 2.2. user -> con => out.txt // out.txt => console
#include <stdio.h>
#include <string.h>
int main()
  FILE *fp; // FILE is a system defined data type. Only for files systems.
  char s[100];
  fp=fopen("ram.txt","r");
  if(fp==NULL)
    printf("ERROR: FILE NOT FOUND\n");
    exit(1);
  }
```

```
while(fgets(s,99,fp))!=NULL)
  puts(s);

fclose(fp);
  return 0;
}

// Binary file and recursion

//Break will exit the control from the loop or switch

//Return will exit the control from any function to Main

//Exit will return the control from any location to compiler
```