Exercise 1:

```
#include<stdio.h>
int main()
{
      FILE *fp;
      char c;
      int cc,sc,lc,tc;
      cc=sc=lc=tc=0;
      fp=fopen("quicksort.c","r");
      while((c=fgetc(fp))!=EOF)
      {
            if(c>=65 && c<=122)
                  cc++;
            if(c==' ')
                  sc++;
            if(c=='\t')
                  tc++;
            if(c=='\n')
                  lc++;
      }
      fclose(fp);
      printf("Total Charecter = %d,Spaces =%d,Tabs = %d,Lines
=%d",cc,sc,lc,tc);
}
```

Exercise2:

```
#include<stdio.h>
int main()
{
      FILE *fp;
      int n,age,i;
      char name[50],c;
      printf("Enter the number of persons");
      scanf("%d",&n);
      fp=fopen("name.txt","w");
      printf("Enter name and age of persons:");
      for(i=0;i<n;i++)
      {
            scanf("%c",name);
            scanf("%d",&age);
            if(age>16)
            fprintf(fp,"\n%s",name);
      }
      fclose(fp);
      fp=fopen("name.txt","r");
      while(1)
      {
```

```
            c=fgetc(fp);
            if(c==EOF)
            break;
            printf("%c",c);
      }
      fclose(fp);
}
```

Exercise 3:

```
#include<stdio.h>
#include<stdlib.h>
void main(int argc,char *argv[])
{
      FILE *fs,*ft;
      char c;
      if(argc!=3)
      {
            printf("Invalid syntax");
            exit(0);
      }
      fs=fopen(argv[1],"r");
      ft=fopen(argv[2],"w");
      while((c=fgetc(fs))!=EOF)
            fputc(c,ft);
      fclose(fs);
      fclose(ft);
}
```

Exercise 4 :

```
#include<stdio.h>
#include<stdlib.h>
void main(int argc,char *argv[])
{
      FILE *fs,*fp,*ft;
      char c;
      if(argc!=4)
      {
            printf("Invalid syntax");
            exit(0);
      }
      fs=fopen(argv[1],"r");
      fp=fopen(argv[2],"r");
      ft=fopen(argv[3],"w");
      while((c=fgetc(fs))!=EOF)
            fputc(c,ft);
```

```
      while((c=fgetc(fp))!=EOF)
            fputc(c,ft);

      fclose(fs);
      fclose(fp);
      fclose(ft);
}
```