

FILE HANDLING solved problems (2 marks)

Q Write a function in a C+ to read the content of a text file "DELHI.TXT" and display al those lines on screen, which are either starting with 'D' or starting with 'M'.

```
void DispDorM()
{ifstream File("DELHI.TXT")
char str[80];
while(File.getline(str,80)
{if(str[0] = ='D' | str[0] = ='M')
cout<str<endl;
}
File.close(); //Ignore
}
```

Write a function in a C+ to count the number of lowercase alphabets present in a text file "BOOK.txt".

Answer

```
int countalpha()
{
  ifstream Fin("BOOK.txt");
  char ch;
  int count=0;
  while(!Fin.eof()
  {
    Fin.get(ch);
    if (islower(ch)
    count++;
  }
  Fin.close();
  return count;
}
```

Q Assume a text file "cordinate.txt" is already created. Using this file create a C+ function to count the number of words having first character capital.

Ans

```
int countword()
{ ifstream Fin("BOOK.txt");
char ch[25];
int count=0;
while(!Fin.eof()
{Fin>>ch;
if (isupper(ch[0])
count++;
}
Fin.close();
return count;
}
```

Function to count number of lines from a text files (a line can have maximum 70 characters or ends at '.')

Ans

```
int countword()
{ ifstream Fin("BOOK.txt");
  char ch[70];
  int count=0;
  if (!Fin)
  { cout<<"Error opening file!" ;
    exit(0);
  }
  while(1)
  {Fin.getline(ch,70,'. ');
  if (Fin.eof())
  break;
  count++;
  }
  Fin.close();
  return count;
}
```

Q.

Write function definition for SUCCESS () in C++ to read the content of a text file STORY.TXT count the presence of word STORY and display the number of occurrence of this word.

Note : The word STORY should be an independent word.

Ignore type cases (i.e. lower/upper case)

Ans :

```
void SUCCESS()
{
  int count=0;
  ifstream f("STORY.TXT");
  char s[20];
  while (!f.eof())
  {
    f>>s;
    if(strcmpi(s,"STORY")==0)
    count++;
  }
  cout<<count;
  f.close();
}
```

Q.

Write function definition for TOWER() in C++ to read the content of a text file WRITEUP.TXT, count the presence of word TOWER and display the number of occurrences of this word.

Note : - The word TOWER should be an independent word

- Ignore type cases (i.e. lower/upper case)

Example:

If the content of the file WRITEUP.TXT is as follows:

Tower of hanoi is an interesting problem. Mobile phone tower is away from here. Views from EIFFEL TOWER are amazing.
The function TOWER () should display the following: 3

Ans :.

```
void TOWER()
{
int count=0;
ifstream f("WRITEUP.TXT");
char s[20];
while (!f.eof())
{
f>>s;
if (strcmpi(s,"TOWER")==0)
count++;
}
cout<<count;
f.close();
}
```

Q.

Write a function EUCount() in C++, which should read each character of a text file IMP.TXT, should count and display the occurrence of alphabets E and U (including small cases e and u too).

Example :

If the file content is as follows:

Updated information is simplified by official websites.

The EUCount() function should display the output as:

E:4

U:1

Ans :

```
void EUCount()
{
ifstream fi("IMP.TXT")
char ch;
int CountE=0,CountU=0;
while(fi)
{
fi.get(ch);
if(ch=='e' || ch=='E') CountE++;
else if(ch=='u' || ch=='U') CountU++;
}
cout<<"E:"<<CountE<<endl;
cout<<"U:"<<CountU;
fi.close();
}
```

Q.

Write a function AECCount() in C++, which should read each character of a text file NOTES.TXT, should count and display the occurrence of alphabets A and E (including small cases a and e too).

Example :

If the file content is as follows :

CBSE enhanced its
CCE guidelines further.

The AECOUNT() function should display the output as

A:1

E:7

Ans :

```
void AECOUNT()
{
    ifstream fi("NOTES.TXT")
        char ch;
        int CountA=0,CountE=0;
        while(fi)
        {
            fi.get(ch);
            if(ch=='A' || ch=='a') CountA++;
            else if(ch=='E' || ch=='e') CountE++;
        }
        cout<<"A:"<<CountA<<endl;
        cout<<"E:"<<CountE;
        fi.close();
    }
```

Q.

Write a function CountYouMe() in C++ which reads the contents of a text file story.txt and counts the words You and Me (not case sensitive).

For example, if the file contains:

You are my best friend.

You and me make a good team.

The function should display the output as

Count for You: 2

Count for Me: 1

Ans :

```
void CountYouMe()
{
    ifstream Fil;
    Fil.open("STORY.TXT",ios::in);
    char Word [80];
    int C1=0, C2=0;
    while (!Fil.eof())
    {
        Fil>>Word;
        if(strcmp(Word,"You")==0)
            C1++;
        else if (strcmp(Word,"Me") ==0)
            C2++;
    }
    cout<<"Count for You:"<<C1<<endl;
    cout<<"Count for Me:"<<C2<<endl;
    fil.close();
}
```

```
}
```

Q.

Write a function TotalDigits() in C++ , which reads the contents of the Text File "child.txt" and display the number of digits in it.

If the file contains:

 All in all, I would like to be 500 note
 and my elders would be 1000 note.
Then the output should be: 7

Ans : .

```
void TotalDigits()
{
    ifstream chi("child.txt");
    int c1=0;
    char ch;
    while(chi)
{ chi.get(ch);
    if(ch>='0' && ch<='9') c1++;
}
cout<< "no of total digits in file:="<<c1;
chi.close();
}
```

Q.

Assuming the class WORKER as declared below, write a function in c++ to read the objects of WORKER from binary file name "WORKER.DAT" and display those records of workers whose wage is less than 300.

```
class WORKER
{ int WNO;char WName[50]; float Wage;
public :
void enter() { cin>>WNO; gets(WName); cin>>Wage;}
void display() { cout<<WNO<<"*"<<WName<<"*"<<Wage<<endl;}
float GetWage() { return Wage;}
};
```

Ans 7: void show()

```
{ ifstream fin("WORKER.DAT",ios::in|ios::binary);
    WORKER W;
    while(fin)
    { fin.read((char*)&W,sizeof(W));

        if( W.GetWage()<300)
        { W.display();}
    }
    Fin.close();
}
```

Q.

Write a function in a C++ to read the content of a text file "UNO.TXT" and display all those lines on screen, which are either starting with 'D' or starting with 'M' .

```

Ans :
void SHOW()
{
ifstream File("UNO.TXT")
char str[80];
File.getline(str,80);
while(File)
{
if(str[0] == 'D' || str[0] == 'M')
{ cout<<str<<endl; }
File.getline(str,80);
}
File.close(); //Ignore
}

```

Q.
Write a function in C++ to count the words "this" and "these" present in a text file "ARTICLE.TXT".
[Note that the words "this" and "these" are complete words]

```

Ans :
void COUNT ( )
{ifstream Fil; // ifstream Fil("ARTICLE.TXT");
Fil.open("ARTICLE.TXT");
char Word[80] ,Ch;
int C1 =0, C2 = 0, I=0;
while(Fil.get(Ch))
{ if (Ch!= ' ')
Word[I++] = Ch;
else
{
Word[I] = '\0';
if (strcmp(Word,"this")==0)
C1++;
else if (strcmp(Word,"these")==0)
C2++;
I=0;
}
}
cout<<"Count of -this- in file:"<<C1;
cout<<"Count of -these- in file:"<<C2;
Fil.close( );
}

```

Q.
Write a function in C++ to count the words "to" and "the" present in a text file "POEM.TXT".
[Note that the words "to" and "the" are complete words]

```

Ans: void WCount ()
{
ifstream fil("POEM.TXT")

```

```

char word[80];
int WC=0;
while( !fil.eof())
{
    if( (strcmp(word, 'to')==0 )|| (strcmp(word, 'the')==0))
        WC++;
}
cout<< WC;
fil.close();
}

```

Q.

Write a function in a C++ to count the number of lowercase alphabets present in a text file "BOOK.txt".

Ans : int countalpha()

```

{    ifstream Fin("BOOK.txt");
char ch;
int count=0;
while(!Fin.eof())
{
    Fin.get(ch);
    if (islower(ch))
        count++;
}
    Fin.close();
return count;
}

```

Q.

Assume a text file "coordinate.txt" is already created. Using this file create a C++ function to count the number of words having first character capital.

Ans :

```

    int countword()
{    ifstream Fin("BOOK.txt");
char ch[25];
int count=0;
while(!Fin.eof())
{
    Fin>>ch;
    if (isupper(ch[0]))
        count++;
}
    Fin.close();
return count;
}

```

Q.

Write a function to count the number of blanks present in a text file named "PR.TXT" .

```

Ans: void BlanksCount( )
{
ifstream fin("PR.TXT",ios::in);
char ch;
int B=0;
if(!fin)
{ cout<<"No words at all in the file.
So no blank spaces";
exit(0);
}
while(fin)
{
fin.get(ch);
if(ch== ' ')
B++;
}
cout<<"\nTotal number of Blank
Spaces in the file = "<<B;
Fin.close();
}

```

Marking Scheme :

(½ Mark for opening.TXT correctly)

(½ Mark for reading each word or character or line (using any method) from the file)

(½ Mark for condition)

(½ Mark for displaying correctly)

Q Write a function in C++ to count the no of "Me" or "My" words present in a text file "DIARY.TXT".
If the file "DIARY.TXT" content is as follows:
My first book was Me and My family. It gave me chance to be known the world.
The output of the function should be
Count of Me/My in file : 4

```

Ans.
void COUNT( ){
ifstream Fil("DIARY. TXT");
char STR[10];
int count = 0;
while(!Fil.eof( ))
{
Fil>>STR;
if(strcmp(STR,"Me")==0||strcmp(STR,"My")==0)
count++;
}
Cout<<"Count of Me/My in file : "<<count<<end1;
Fil.close( ); //Ignore
}

```

HOTS Questions

Q Write a program that copies one file to another. Has the program to take the file names from the users? Has the vprogram to refuse copy if there already is a file having the target name?


```

Ans. #include<iostream.h>
#include<conio.h>
#include<fstream.h>
#include<stdlib.h>
void main(){
ofstream outfile;
ifstream infile;
char fname1[10],fname2[20];
char ch,uch;
clrscr( );
cout<<"Enter a file name to be copied ";
cin>> fname1;
cout<<"Enter new file name";
cin>>fname2;
infile.open(fname1);
if( infile.fail( ) )
{
cout<< " No such a file Exit";
getch();
exit(1);
}
outfile.open(fname2,ios::noreplace);
if(outfile.fail())
{
cout<<"File Already Exist";
getch();
exit(1);
}
else
{
while(!infile.eof( ))
{
ch = (char)infile.get( );
outfile.put(ch);
}
}
infile.close( );
outfile.close( );
getch( );
}

```

Q

Write a program that appends the contents of one file to another. Have the program take the filenames from the user.

```

Ans. #include<iostream.h>
#include<conio.h>
#include<fstream.h>
#include<stdlib.h>
void main(){
ofstream outfile;
ifstream infile;
char fname1[10],fname2[20];
char ch,uch;
clrscr( );
cout<<"Enter a file name from where to append ";
cin>> fname1;
cout<<"Enter the file name where to append";
cin>>fname2;

```

```

infile.open(fname1);
if( infile.fail())
{
cout<< " No such a file Exit";
getch();
exit(1);
}
outfile.open(fname2,ios::app);
while( !infile.eof())
{
ch = (char)infile.get();
outfile.put(ch);
}
infile.close( );
outfile.close( );
getch( );
}

```

Q Write a program that reads character from the keyboard one by one. All lower case characters get store inside the file LOWER, all upper case characters get stored inside the file UPPER and all other characters get stored inside OTHERS.

```

Ans. #include<iostream.h>
#include <ctype.h>
#include<conio.h>
#include <stdio.h>
#include<fstream.h>
void main(){
char c,fname[10];
ofstream filout1,filout2,filout3;
filout1.open("UPPER.txt");
filout2.open("LOWER.txt");
filout3.open("OTHER.txt");
cout<<"Enter contents to store in file (Enter # to stop):\n";
while((c=getchar())!='#')
{
if(isupper(c))
{
filout1<<c;
}
else if(islower(c))
{
filout2<<c;
}
else
{
filout3<<c;
}
}
filout1.close();
filout2.close();
filout3.close();
getch();
}

```

Q Write a program to search the name and address of person having age more than 30 in the data list of persons.

Ans. Assuming the file "employee.dat" is already existing in binary format.

```
#include<iostream.h>
#include<conio.h>
#include <stdio.h>
#include<fstream.h>
class employee{
char name[20];
char address[20];
int age;
public:
void showdata()
{
cout<<"\nEmployee Name : ";
puts(name);
cout<<"\nEmployee Address : ";
puts( address);
}
int retage()
{
return age;
}
};
void search (){
employee emp;
ifstream ifs;
ifs.open("employee.dat",ios::binary);
while(ifs.read((char*)&emp,sizeof(emp)))
{
if(emp.retage(>30)
emp.showdata();
}
ifs.close();
}
void main(){
clrscr();
search();
getch();
}
```