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/*****
/***** Name:- Divesh Uttamchandani *****/
/***** Class :- XII A *****/
/***** Date :- 10 August 2014 *****/
/***** Q-12):- Count File *****/
/*****/

#include <iostream.h>
#include <fstream.h>
#include <conio.h>
#include <ctype.h>
#include <process.h>
#include <stdio.h>
#include <string.h>

/////////////////////////////////Declaration of Functions/////////////////////////////////
int checkpallin(char word[80]);
void create_info();
void vowel_conso();
void sentence_count();
void various_word_count();
void display(char c[80]);
/////////////////////////////////

//*****Void Main()*****//
void main()
{
    int choice;
    cout<<"A program To Count Various Things in a file";
    do
    {
        clrscr();
        cout<<"Main Menu"
            <<"\n1)\tCreate Info.txt"
            <<"\n2)\tSentence Count"
            <<"\n3)\tVarious Type Of Word Count"
            <<"\n4)\tCreate File Vovwel.txt & Conso.txt"
            <<"\n5)\tDisplay \'info.txt\'"
            <<"\n6)\tDisplay \'vovwel.txt\'"
            <<"\n7)\tDisplay \'conso.txt\'"
            <<"\n8)\tExit";
        cout<<"\n\nEnter Choice\t"; cin>>choice;

        switch(choice)
        {
            case 1:
                create_info();
                break;
            case 2:
                sentence_count();
                break;

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case 3:
    various_word_count();
    break;
case 4:
    vowel_conso();
    break;
case 5:
    display("info.txt");
    break;
case 6:
    display("vowel.txt");
    break;
case 7:
    display("conso.txt");
    break;
case 8:
    exit(0);
    break;
default:
    cout<<"\nInvalid Choice";
}
cout<<"\nPress Y to continue";
}while(toupper(getche())=='Y');
}
//*****End Of Main*****//

/////////////////////////////////Defination of Functions/////////////////////////////////
//_____//
void create_info()
{
    ofstream fout;
    fout.open("info.txt");

    if(!fout)
        cout<<"\nError";
    else
    {
        char line[80];
        char ch;

        do
        {
            gets(line);
            fout<<line;
            cout<<"\nDo You Want To Enter More??(Y/N)";
            cin>>ch;
        }while(toupper(ch)=='Y');

        fout.close();
    }
}
//_____//

```

```
// _____//
void vowel_conso()
{
    ifstream fin("info.txt");

    ofstream fvowel("vowel.txt");
    ofstream fconso("conso.txt");

    if(!fin||!fvowel||!fconso)
        cout<<"\nError";
    else
    {
        fin.seekg(0);
        char word[80];
        int i=0;
        char ch;
        cout<<"\nMaking Files...\nPress Any key To Continue";
        getch();

        while(fin.get(ch))
        {
            word[i]=ch;
            if((ch!=' ')&&(ch!='.'))
            {
                i++;
                continue;
            }
            word[i++]='\0';
            i=0;
            if(isalpha(word[0]))
            {
                switch(toupper(word[0]))
                {
                    case 'A':
                    case 'E':
                    case 'I':
                    case 'O':
                    case 'U':
                        fvowel<<word<<"\n";
                        break;
                    default :
                        fconso<<word<<"\n";
                }
            }
        }
        cout<<"\nDone";
        fin.close();
        fvowel.close();
        fconso.close();
    }
}
// _____//
```

```
// _____//
void sentence_count()
{
    ifstream fin("info.txt");

    if(!fin)
        cout<<"\nError";
    else
    {
        char ch;
        int c=0;
        fin.seekg(0);

        while(fin.get(ch))    //fullstop as a delimiter
        {
            if(ch=='.')
                c++;
        }
        cout<<"\nNo of lines\t"<<c;

        fin.close();
    }
}
// _____//
```

```
void various_word_count()
{
    int pallin=0;
    int upcase=0;
    char word[80];
    ifstream fin("info.txt");

    if(!fin)
        cout<<"\nerror";
    else
    {
        fin.seekg(0);
        int i=0;
        char ch;
        while(fin.get(ch))
        {
            word[i]=ch;
            if((ch!=' ') && (ch!='.'))
            {
                i++;
                continue;
            }
            word[i++]='\0';

            i=0;
        }
    }
}
```

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        if(checkpallin(word))
            pallin++;

        if(isupper(word[0]))
            upcase++;
    }

    fin.close();

    cout<<"\nNo of Pallindrome Words=\t"<<pallin;
    cout<<"\nNo of Uppercase Words=\t\t"<<upcase;
}

//_____//

void display(char c[20])
{
    ifstream fin(c);

    if(!fin)
        cout<<"\nError";
    else
    {
        char ch;
        fin.seekg(0);
        while(fin.get(ch))
        {
            cout<<ch;
        }
        fin.close();
    }
}

//_____//

int checkpallin(char word[80])
{
    int flag=1;
    int n=strlen(word);
    int i=0,j=0;

    for(i=0,j=n-1;i<n/2;i++,j--)
    {
        if(toupper(word[i])!=toupper(word[j]))
            flag=0;
    }
    return flag;
}

//_____//

```

OUTPUT

```
Main Menu
1)      Create Info.txt
2)      Sentence Count
3)      Various Type Of Word Count
4)      Create File Vowel.txt & Conso.txt
5)      Display 'info.txt'
6)      Display 'vowel.txt'
7)      Display 'conso.txt'
8)      Exit
```

```
Enter Choice    1
This Is a sample File.

Do You Want To Enter More??(Y/N)y
naman and Kanak asked Madam a question.

Do You Want To Enter More??(Y/N)n

Press Y to continue
```

```
Main Menu
1)      Create Info.txt
2)      Sentence Count
3)      Various Type Of Word Count
4)      Create File Vowel.txt & Conso.txt
5)      Display 'info.txt'
6)      Display 'vowel.txt'
7)      Display 'conso.txt'
8)      Exit

Enter Choice    5
This Is a sample File.naman and Kanak asked Madam a question.
Press Y to continue
```

```
Main Menu
1)      Create Info.txt
2)      Sentence Count
3)      Various Type Of Word Count
4)      Create File Vowel.txt & Conso.txt
5)      Display 'info.txt'
6)      Display 'vowel.txt'
7)      Display 'conso.txt'
8)      Exit

Enter Choice    2

No of lines     2
Press Y to continue
```

```
Main Menu
1)      Create Info.txt
2)      Sentence Count
3)      Various Type Of Word Count
4)      Create File Vowel.txt & Conso.txt
5)      Display 'info.txt'
6)      Display 'vowel.txt'
7)      Display 'conso.txt'
8)      Exit

Enter Choice    3

No of Pallindrome Words=      5
No of Uppercase Words=      5
Press Y to continue
```

```
Main Menu
1)      Create Info.txt
2)      Sentence Count
3)      Various Type Of Word Count
4)      Create File Vowel.txt & Conso.txt
5)      Display 'info.txt'
6)      Display 'vowel.txt'
7)      Display 'conso.txt'
8)      Exit

Enter Choice    4

Making Files...
Press Any key To Continue
Done
Press Y to continue_
```

```
Main Menu
1)      Create Info.txt
2)      Sentence Count
3)      Various Type Of Word Count
4)      Create File Vowel.txt & Conso.txt
5)      Display 'info.txt'
6)      Display 'vowel.txt'
7)      Display 'conso.txt'
8)      Exit

Enter Choice    6
Is
a
and
asked
a
Press Y to continue_
```

Main Menu

- 1) Create Info.txt
- 2) Sentence Count
- 3) Various Type Of Word Count
- 4) Create File Vowel.txt & Conso.txt
- 5) Display 'info.txt'
- 6) Display 'vowel.txt'
- 7) Display 'conso.txt'
- 8) Exit

Enter Choice 7

This

sample

File

naman

Kanak

Madam

question

Press Y to continue_