Experiment – 11.a

Date-24-Oct-2018

**Aim:-** To write a program that shows that two files named ‘Source1’ and ‘Source2’ contains sorted list of integers. Read the content of both the files and stores the merged list in sorted form in a new file named ‘Target’.

**Algorithm:-**

1: Start.

2: Declare file stream objects as file1 , file2 , file3.

3: Open first file using file1 as ‘Source1’.

4: Accept input from user and write in file1.

5: Close ‘Source1’ file using file1.

6: Open Second file using file2 as ‘Source2’.

7: Accept input from user and write in file2.

8: Close ‘Source2’ file using file2.

9: Open ‘Target’ file using file3.

10: Merge the content of file1 and file2 in file3 in sorted form.

11: Close ‘Target’ file using file3.

12: Stop.

**Program:-**

#include<fstream>

#include<iostream>

#include<conio.h>

using namespace std ;

void buble\_sort(int\* , int);

int main()

{ int n1 , n2 , temp , k = 0 ;

fstream file1 , file2 , file3 ;

cout<<"\nEnter how many integers you wants to enter in first file: "; cin>>n1 ;

cout<<"\nEnter how many intergers you wnats to enter in second file: "; cin>>n2 ;

int f1[n1] , s1[n1] ;

int f2[n2] , s2[n2] ;

int f3[n1+n2] ;

cout<<"Enter intergers in first file :"<<endl ;

for(int i=0 ;i<n1 ; i++)

{ cin>>f1[i] ; }

buble\_sort(f1, n1);

cout<<"Enter integers in second file :"<<endl;

for(int i=0 ;i<n2 ; i++)

{ cin>>f2[i]; }

buble\_sort(f2,n2);

file1.open("Source1.txt",ios::out|ios::in|ios::app|ios::binary) ;

if(!file1){ cout<<"File1 open fail"<<endl; exit(0);}

for(int i=0 ; i<n1 ;i++)

{ file1<<f1[i]<<"\n" ; }

file1.seekg(0,ios::beg);

while(file1.eof() == NULL)

{ file1>>temp;

f3[k] = temp ;

k++ ; }

k = 0 ;

file1.close() ; file1.clear() ;

file2.open("Source2.txt",ios::in|ios::out|ios::app|ios::binary) ;

if(!file2) { cout<<"File2 open fail"<<endl; exit(0) ; }

for(int i=0 ;i<n2 ; i++)

{ file2<<f2[i]<<"\n"; }

file2.seekg(0,ios::beg) ;

while(file2.eof() == NULL)

{ file2>>temp ;

f3[n1+k] = temp ;

k++ ; }

file2.close() ;

file2.clear() ;

buble\_sort(f3 , n1+n2) ;

file3.open("Target.txt", ios::app|ios::binary) ;

if(!file3) { cout<<"File3 open fail"<<endl ; exit(0 );}

for(int i= 0 ; i<n1+n2 ; i++)

{ file3<<f3[i]<<"\n" ; }

cout<<"Content Write in Target file successefully !!"<<endl;

file3.close() ;

getch() ; return 0 ; }

void buble\_sort(int \*p , int n )

{ int temp ;

for(int i=0 ; i<n ; i++)

{ for(int j=i+1 ; j<n ; j++)

{ if(\*(p+i)>\*(p+j))

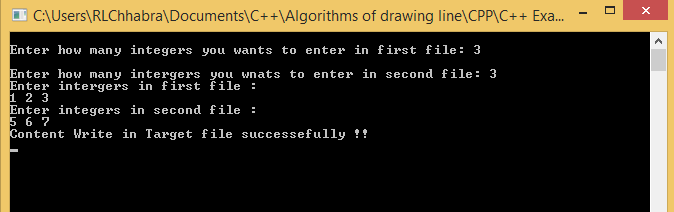
{ temp = \*(p+i) ;

\*(p+i) = \*(p+j) ;

\*(p+j) = temp ; } } }}

**Input Given:-** Source1 = 1 , 2,3 and Source2 = 5, 6,7 .

**Output:-**

****