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Experiment 9

① Write a program to copy the contents of one file into another. Open "First.txt" in read (ios::in) mode and "second.txt" file in write (ios::out) mode. Copy the contents of "First.txt" into "Second.txt". Assume "First.txt" is already created.

② Write a C++ program to count words using file handling.

③ Write a C++ program to count occurence of a given word using file handling.

④ Write a C++ program to count digits and spaces using file handling.

①
```
#include<iostream>
#include<fstream>
#include<string>
using namespace std;
int main()
{
 char ch;
 ifstream fin("first.txt");
 ofstream fout("destination.txt");
 if(!fin)
 {
 cout<<"ERROR in opening destination file"<<
                                    endl;
 fin.close();
 return 1;
```

```
}
while (fin.get(ch))
{
 fout << ch;
}
fin.close();
fout.close();
cout << "File is successfully copied";
  return 0;
}
```

Output - first.txt

Welcome to MIT WPU Pune

destination.txt

Welcome to MIT WPU Pune

(2)

```
#include <iostream>
#include <fstream>
#include <string>
using namespace std;
int main()
{
 string word;
 int count = 0;
 ifstream fin("source.txt");
 ofstream fout("destination.txt");
 if (!fin)
{
cout << "ERROR in opening source file" <<
                                    endl;
 return 1;
```

```
if (!fout)
{
cout<<"ERROR in opening destination file"<<
                                    endl;
fin.close();
return 1;
}
while (fin>>word)
{
 count++;
}
fout<<word;
}
fin.close();
fout.close();
cout<<"Total number of words = "<<count;
return 0;
```

Output - Total number of words = 2

(8) Write a C++ program to count occurence of a given word using file handling.

```
#include <iostream>
#include <fstream>
#include <string>
using namespace std;
int main()
{
string word;
 string a;
int count = 0;
```

```
int a_count = 0;
ifstream fin ("Source.txt");
ofstream fout ("destination.txt");
cout <<"Enter a word :";
cin >>a;
if (!fin)
{
cout <<"ERROR in opening source file" <<endl;
 return 1;
}
 if (!fout)
 {
cout <<"ERROR in opening destination file "<<end
 fin.close();
 return 1;
 }
while (fin >> word)
 {
 fout << word;
 count ++;
if (word ==a)
 {
  a_count ++;
}
}
fin.close();
fout.close ();
cout <<"Total number of repeals = "<< a_count;
 return 0;
}
```

Output - Source.txt
Welcome to mit wpu pune
Enter a word : wpu
Total number of repeats = 1

(4)
```
#include <iostream>
#include <fstream>
#include <string>
using namespace std;
int main()
{
char ch;
int digitcount = 0;
int spacecount = 0;
ifstream fin("Source.txt");
ofstream fout ("destination.txt");
if (!fin)
{
cout << "Error in opening source file" << endl;
return 1;
}
if (!fout)
{
cout << "Error in opening destination file" <<
                                        endl;
fin.close();
return 1;
}
while (fin.get(ch))
{
fout << ch;
```

```
if (isdigit (ch))
{
  digitcount ++;
}
if (isspace (ch))
{
  spacecount ++;
}
}
fin.close();
fout.close();
cout<<"File is successfully copied." <<endl;
cout<<"Number of digits:"<<digitcount<<endl;
cout<<"Number of spaces:"<<spacecount<<endl
return 0;
}
```

Output - source.txt

Welcome to mit 2025

Number of digits : 4

Number of spaces : 3