Home Work No.14(File Handling)

/////////code-1 handling: 1D, 2D and Character arrays//////////////////////////////////////

```
#include <iostream>
#include<iomanip>

using namespace std;

//const int a = 4;
int sum2darray(int[][4]);


int main()

{
	/*int arr1[] = { 1,5,2,7,9};

	//int arr2d[4][4] = { {1,2,3,4},{5,6,7,8},{1,2,3,4},{5,6,7,8} };
	int arr2d[][4] = { 1,2,3,4,5,6,7,8,1,2,3,4,5,6,7,8 };

	cout << "\nvlaues of array before Funcall: :\n";
	for (int i = 0; i <= 3; i++)
	{
		for (int j = 0; j <= 3; j++)
		{
			cout << arr2d[i][j] <<" ";
		}
		cout << endl;
	}

	//cout << arr2d[1][1];

	cout << sum2darray(arr2d);

	cout << "\nvlaues of array after Funcall: :\n";
	for (int i = 0; i <= 3; i++)
	{
		for (int j = 0; j <= 3; j++)
		{
			cout << arr2d[i][j] << " ";
		}
		cout << endl;
	}
	*/

	int a;
	char carray[20];

	//cin.getline(carray, 20, ' ');
	cout << "\nEneter an integer :";
	cin >> a;

	cin.ignore();
```

```
	cout << "Enter You name:";
	cin.getline(carray, 20, '\n');
	cout << carray;

}

int sum2darray(int arr[][4])
{
	int sum = 0;

	for (int i = 0; i <= 3; i++)
	{
		for (int j = 0; j <= 3; j++)
		{
			sum += arr[i][j];
			arr[i][j] = 1;
		}

	}

	return sum;

}


/////////Code-2 File writing code

#include <iostream>

#include<fstream> ///step-1


using namespace std;


int main()

{

	fstream wfile;//step-2 creating file variable/object/handler

	wfile.open("writefile.txt",ios::out|ios::app);//step-3 Linking/associating file-object to a file

	wfile<<"Hello in new file";

	wfile<<"\nHello in new file";

	wfile<<"\nHello in new file";

	for (int i=0; i<10;i++)

	{

		wfile<<i<<endl;
```

```
        }
        wfile.close();///close file object
        cout<<"\n\nProgram Ends Here\n";

return 0;
}

/////////Code-3 File Reading code
#include <iostream>
#include<fstream>//step-1

using namespace std;

int main()
{
        int var1 = 2;
        int sum = 0;
        int i=0;
        float avg = 0.0;
        fstream readfile;////Step-2
        fstream writefile;
        readfile.open("file2.txt",ios::in);//step-2
        writefile.open("file10.txt",ios::out|ios::app);
        if (readfile)///Checking if file open for reading exist or not
        {
                cout<<"\nFile is present\n";
                //////logic of file reading
                while (readfile>>var1)//!readfile.eof()//returns False when <EOF> occurs/Read
                {
```

```
                sum +=var1;
                i++;
                writefile<<var1<<endl;
        }
        avg = float (sum)/i;
        writefile<<"\n\nSum is :  "<<sum;
        writefile<<"\n\nAverage is "<<avg;
    }
    else
    {
        cout<<"\nfileNot found";
    }

    readfile.close();//closing file reading
    writefile.close();
    cout<<"\n\nProgram Ends Here\n";

return 0;
}
```