Assignment No 4

Write a c++ program that creates an output file , writes information to file ,closes the file and

open it again as an input file, and read info from file.

```cpp
#include<iostream>

#include<fstream>

#include<stdlib.h>

using namespace std;


class student

{

private:

int roll;

float marks;

char name[20];

public:

void accept()

{

cout<<"\nEnter roll no:";

cin>>roll;

cout<<"\nEnter marks of student:";

cin>>marks;

cout<<"\nEnter name of student:";

cin>>name;

}
```

```cpp
void display()
{
cout<<"\nName : "<<name;
cout<<"\nRoll no: "<<roll;
cout<<"\nMarks are: "<<marks;
}
};
int main()
{
int ch,n,i;
fstream f;
student s[10];
while(1)
{
cout<<"\nMenu :";
cout<<"\n1.Create :";
cout<<"\n2.write :";
cout<<"\n3.read :";
cout<<"\n4.append :";
cout<<"\n5.exit :";
cout<<"\nEnter ur choice:";
cin>>ch;
switch(ch)
{
```

```cpp
case 1:
f.open("file.txt",ios::out);
cout<<"\nFile is successfully created :";
f.close();
break;
case 2:
f.open("file.txt",ios::out | ios::app);
cout<<"\nhow many students do u want to enter:";
cin>>n;
for(i=0;i<n;i++)
{
s[i].accept();
f.write((char*)& s,sizeof (s));
}
f.close();
break;
case 3:
f.open("file.txt",ios::in );
for(i=0;i<n;i++)
{
f.read((char*)& s,sizeof (s));
s[i].display();
}
f.close();
```

```
break;
case 4:
{
f.open("file.txt",ios::app);
    s[i].accept();
    f.write((char*)& s,sizeof (s));
n++;
f.close();
}

break;
case 5:
exit(0);
}
}
}
```
Output:

Menu :

1.Create :

2.write :

3.read :

4.append :

5.exit :

Enter ur choice:1

File is successfully created :

Menu :

1.Create :

2.write :

3.read :

4.append :

5.exit :

Enter ur choice:2

how many students do u want to enter:1

Enter roll no:1

Enter marks of student:40

Enter name of student:sneha

Menu :

1.Create :

2.write :

3.read :

4.append :

5.exit :

Enter ur choice:3

Name : sneha

Roll no: 1

Marks are: 40

Menu :

1.Create :

2.write :

3.read :

4.append :

5.exit :

Enter ur choice:

Menu :

1.Create :

2.write :

3.read :

4.append :

5.exit :

Enter ur choice:1

File is successfully created :

Menu :

1.Create :

2.write :

3.read :

4.append :

5.exit :

Enter ur choice:2

how many students do u want to enter:1

Enter roll no:1

Enter marks of student:45

Enter name of student:t

Menu :

1.Create :

2.write :

3.read :

4.append :

5.exit :

Enter ur choice:4

Enter roll no:2

Enter marks of student:56

Enter name of student:e

Menu :

1.Create :

2.write :

3.read :

4.append :

5.exit :

Enter ur choice:3

Name : t

Roll no: 1

Marks are: 45

Name : e

Roll no: 2

Marks are: 56

Menu :

1.Create :

2.write :

3.read :

4.append :

5.exit :

Enter ur choice: