

Practice Questions

Question 1

Write program to display the content of file such as:

(a)-Display the name of student that begin with letter "A" or "C"?

(b)-Display the name of student that begin with small letter ?

(c)-Display the number of names in file?

Solution

```
void main()
{ intz;
char name[50];
ifstream x("name.txt");
while(1)
{ x.getline (name, 30);
if (x.fail()) break;
if (name[0] == "A" || name[0] == "C")
cout << "Name =" << name << endl;
if (name[0] >= "a" && name[0] <= "z")
cout << "Name =" << name << endl;
z++;
}
cout<<z;
x.close();
}
```

Question 2.

Write a program to display the content of the file that include Student, Name, age, mark

```
struct student
{char name[10], int Age, int Mark; };
void main()
{student S;
ifstream X("student.dat");
X.read ((unsigned char*)&S,sizeof(S));
if(X.fail()) break;
cout<<"NAME"<<S.name<<endl;
cout<<"MARK"<<S.Mark<<endl;
cout<<"AGE"<<S.Age<<endl;
}
cin>>S.Mark;
X.close();
}
```

Questions 3

Write a program to display the content of the file that include Student, Name, age, mark and attempt others

- (a)- Find the sum of mark and average.
- (b)- find the maximum of mark.
- (c)- find the name of student who take the maximum mark.
- (d)- count the number of student who take the mark is 99

Solution

Solution a + b

```
struct student
{char name[10], int Age, int Mark; };
void main()
{Student S;
Int sum=0, avg, d;
Int max=0;
ifstream X("student.dat");
X.read ((unsigned char*)&S,sizeof(S));
if(X.fail()) break;
Sum = sum + S.Mark;
if(S.Mark > Max)
Max = S.Mark
d++;
Cout<<"MAX ="<<Max;
}
cout<<"avg = sum/d"<<sum/d<<endl;
X.close();
}
```

Solution C

```
struct student
{char name[10], int Age, int Mark; };
void main()
{student S;
Int max=0 , int d;
ifstream X("student.dat");
X.read ((unsigned char*)&S,sizeof(S));
if(X.fail()) break;
if(S.Mark > Max)
```

```

Max = S.Mark
S.name = Max;
d++;
Cout<<"NAME ="<<S.name;
}
X.close();
}

```

Solution D

```

struct student
{char name[10], int Age, int Mark; };
void main()
{student S;
int d;
ifstream X("student.dat");
X.read ((unsigned char*)&S,sizeof(S));
if(X.fail()) break;
if(S.Mark == 99)
d++;
Cout<<"NAME ="<<S.name;
}
Cout<<"d="<<d<<endl;
X.close();
}

```

Question 4

Create a text file and write a C++ program that create a text file for N name of instructors :

Solution

```

#include<iostream.h>
#include<fstream.h>
void main()
{ int n;
char name[50];
ofstream x ("name.txt");
if (!x) { cout << "The file not found"; }
cin >> n;
cout << "enter the number of instructor" << endl;
for ( int i=0; I <=n ; i++)

```

```

{ cout << "Enter the name of instructor" << endl;
cin >> name;
cout << endl;
x << name;
}
x.close(); }

```

Question 5

Write program to display the content of the text file?

Solution:

```

include<iostream.h>
include<fstream.h>
void main()
{
char name[50];
ifstream x ("name.txt");
while(1)
{
x >> name;
if (x.fail()) break;
cout << "Name =" << name << endl;
}
x.close();
}

```

Write program to display the content of the file, NAME, AGE, MARK?

```

struct student
{char name[10], int Age, int Mark; };
void main()
{student S;
ifstream X("student.dat");
X.read ((unsigned char*)&S,sizeof(S));
if(X.fail()) break;
cout<<"NAME"<<S.name<<endl;
cout<<"MARK"<<S.Mark<<endl;
cout<<"AGE"<<S.Age<<endl;
}
cin>>S.Mark;
X.close();
}

```

Question 6

Binary file

The binary file is two type

A-File of integer or Char

B-File of record

- Extension of binary file is name of file.dat

The binary file contain two statement one for read and other for write

- statement of write is

logical name.write((unsigendchar*)&object,sizeof(object));

-statement for read

logical name.read((unsigendchar*)&object,sizeof(object));

File of integer

vide main()

```
{
int Mark;
ofstream Z("mark.dat")
if(!Z)
{ cout<<"file cannot open"; break; }
wile(1)
{cin>>Mark;
if(Mark==999) break;
Z.write((unsigned char*)&Mark,sizeof(Mark));
}
Z.close();
}
```

File of record

```
struct student
{char name[10], int Age, int Mark; };
void main()
{student S;
ofstream X("student.dat");
cin>>S.Mark;
while(S.Mark !=-1)
{
cin>>S.name>>S.Age;
X.write ((unsigned char*)&S,sizeof(S));
if(X.fail()) break;
}
cin>>S.Mark;
X.close();
}
```

Text file by using EOF

```
#include<iostream.h>
#include<fstream.h>
void main()
{
char n[20];
ifstream Z("student.txt");
Z.getline(n,15);
While(!Z.eof())
{
cout<<"n ="<<n<<endl;
Z.getline(n,15);
}
Z.close();
}
```