**CERTIFICATE OF AUTHENTICITY**

**This is to certify that** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**of class XII-A, Ch. Chhabil Dass Public School, Ghaziabad has successfully completed her project in computer science as prescribed by CBSE in the year 2016-2017.**

**DATE:**

**Registration no. :**

**Mr. Amit Kumar Singhal**

**(P.G.T. Computer Science)**

Signature of Signature of internal examiner external examiner

**ACKNOWLEDGEMENT..**

I take immense pleasure in thanking **Mr. Amit Kumar Singhal** for having permitted me to carry out this project work.

Needless to mention that he had been a source of inspiration and for his timely guidance in the conduct of our project work.I would also like to thank him for all their valuable assistance in the project work.

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Programming Language C++

C++ is an "object oriented" programming language created by Bjarne Stroustrup and released in 1985. It implements "data abstraction" using a concept called "classes", along with other features to allow object-oriented programming. Parts of the C++ program are easily reusable and extensible; existing code is easily modifiable without actually having to change the code. C++ adds a concept called "operator overloading" not seen in the earlier OOP languages and it makes the creation of libraries much cleaner.

C++ maintains aspects of the C programming language, yet has features which simplify memory management. Additionally, some of the features of C++ allow low-level access to memory but also contain high level features.

C++ could be considered a superset of C. C programs will run in C++ compilers. C uses structured programming concepts and techniques while C++ uses object oriented programming and classes which focus on data.

OBJECTIVE

**The purpose of this Project was to make a C++ coding which will enable us to add, list, delete and modify the records of employees.**

**I became interested in this topic when I saw some programs on turbo C++ and wanted to find out some facts about classes and inheritance etc .The information gained from this program will help people know where to use which inheritance, which specifier and why .It will also let them know which way they have to lead there projects to compile.**

Hardware and Software Requirement..

**Hardware Requirement**

* Pentium- I or Higher
* 128 MB RAM or Higher
* Monitor
* Keyboard

**Software Requirement**

* DOS or Windows 95 or any other Operating System
* Turbo C++ or Dev C++ or any other C++ Compiler

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class and functioning...

#include<iostream.h>

#include<ctype.h>

#include<string.h>

#include<fstream.h>

#include<conio.h>

#include<process.h>

#include<stdio.h>

class emp

{

int eno;

char name[20];

int age;

char dept[20];

char add[20];

float sal;

public:

void input();

void show();

int reteno()

{

return eno;

}

char\* retname()

{

return name;

}

char \* retdept()

{

return dept;

}

};

void add\_data();

void show\_data();

void del\_data();

void update\_data();

void search\_eno();

void search\_name();

void search\_dept();

void emp::input()

{

clrscr();

cout<<" Enter the eno ..";

cin>>eno;

cout<<" Enter the name ..";

gets(name);

cout<<" Enter the age ..";

cin>>age;

cout<<" Enter the dept ..";

gets(dept);

cout<<" Enter the Address ..";

gets(add);

}

void emp::show()

{

cout<<endl;

cout<<" Eno .."<<eno<<endl;

cout<<" Name .."<<name<<endl;

cout<<" Age .."<<age<<endl;

cout<<" Dept .."<<dept<<endl;

cout<<" Address .."<<add<<endl;

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

}

void add\_data()

{

ofstream fout("emp.dat",ios::app|ios::binary);

emp e;

e.input();

fout.write((char\*)&e,sizeof(e));

fout.close();

}

void show\_data()

{

clrscr();

ifstream fin("emp.dat",ios::binary);

if(!fin)

{

cout<<"File is not open\n";

getch();

exit(0);

}

emp e;

while(fin.read((char\*)&e,sizeof(e)))

{

e.show();

}

fin.close();

}

void search\_eno()

{

ifstream fin("emp.dat",ios::binary);

if(!fin)

{

cout<<"File is not open\n";

getch();

exit(0);

}

emp e;

int n,f=0;

cout<<"\nEnter the eno to be searched....\n";

cin>>n;

while(fin.read((char\*)&e,sizeof(e)))

{

if(e.reteno()==n)

{

e.show();

f=1;

}

}

if(f==0)

{

cout<<"record is not found..\n";

getch();

}

fin.close();

}

void search\_name()

{

ifstream fin("emp.dat",ios::binary);

if(!fin)

{

cout<<"File is not open\n";

getch();

exit(0);

}

emp e;

int f=0; char ch[20];

cout<<"\nEnter the name to be searched....\n";

gets(ch);

while(fin.read((char\*)&e,sizeof(e)))

{

if(strcmpi(e.retname(),ch)==0)

{

e.show();

f=1;

}

}

if(f==0)

{

cout<<"record is not found..\n";

getch();

}

fin.close();

}

void search\_dept()

{

ifstream fin("emp.dat",ios::binary);

if(!fin)

{

cout<<"File is not open\n";

getch();

exit(0);

}

emp e;

int f=0; char ch[20];

cout<<"\nEnter the dept to be searched....\n";

gets(ch);

while(fin.read((char\*)&e,sizeof(e)))

{

if(strcmpi(e.retdept(),ch)==0)

{

e.show();

f=1;

}

}

if(f==0)

{

cout<<"record is not found..\n";

getch();

}

fin.close();

}

void del\_data()

{

ifstream fin("emp.dat",ios::binary);

ofstream fout("tmp.det",ios::binary);

if(!fin)

{

cout<<"File is not open\n";

getch();

exit(0);

}

emp e;

int n;

cout<<"\nEnter the eno to be deleted....\n";

cin>>n;

while(fin.read((char\*)&e,sizeof(e)))

{

if(e.reteno()!=n)

{

fout.write((char\*)&e,sizeof(e));

}

}

fin.close();

fout.close();

remove("emp.dat");

rename("tmp.dat","emp.dat");

}

void update\_data()

{

fstream fin("emp.dat",ios::in|ios::out|ios::binary);

if(!fin)

{

cout<<"File is not open\n";

getch();

exit(0);

}

emp e,e1;

int n,f=0;

cout<<"\nEnter the eno to be updated....\n";

cin>>n;

while(!fin.eof())

{

fin.read((char\*)&e,sizeof(e));

if(e.reteno()==n)

{

e1.input();

fin.seekp(-sizeof(emp),ios::cur);

fin.write((char\*)&e1,sizeof(emp));

cout<<"record is updated..\n";

getch();

f=1;

}

}

if(f==0)

{

cout<<"record is not found..\n";

getch();

}

fin.close();

}

void main()

{

clrscr();

char ch='y';

int choice;

do

{

clrscr();

cout<<" Employee Manageent System \n";

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

cout<<"1. Add Record\n";

cout<<"2. Show Record\n";

cout<<"3. Search Record\n";

cout<<"4. Delete Record\n";

cout<<"5. Update Record\n";

cout<<"0. Exit\n";

cout<<"Enter Your Choice.....\n";

cin>>choice;

switch(choice)

{

case 1:

add\_data();

break;

case 2:

show\_data();

break;

case 3:

int ch1;

clrscr();

cout<<"1. search eno\n";

cout<<"2. Search name\n";

cout<<"3. Search dept\n";

cout<<"Enter your choice...";

cin>>ch1;

switch(ch1)

{

case 1:

search\_eno();

break;

case 2:

search\_name();

break;

case 3:

search\_dept();

break;

default :

cout<<"Wrong Choice..";

};

break;

case 4:

del\_data();

break;

case 5:

update\_data();

break;

case 0:

exit(0);

default:

cout<<"Wrong choice...\n";

};

cout<<"Do you want to continue....y/n\n";

cin>>ch;

ch=toupper(ch);

}while(ch!='N');

getch();

}

OUTPUTS..



























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