QwertyuiopasdfghjklzxcvbnmqwertyuiopC++asdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuAvinashghjklzxcvbnmqwerC++uiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiVigneshhjklzxcvbC++wertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzJoannmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklamalbnmrtyuiopasdfghjklzxcvbnmgsgqwertyuiopaC++ghjklzxcvbn **Done by :**

ffssdfssiopasdfghjklzxc **JOAN IYPE ZACHARIA**

ghjklzxcvbnmqwertyuiopasdfgh **XII - J**

cvnmqwertyuiopasdfghjklzxcvbfgsfgsfgsnmqwertyuiopasdfghjklzxc

vbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnm

|  |
| --- |
| Computer Science Project  T H E I N D I A N S C H O O L, K I N G D O M O F B A H R A I N  2015-2016  .DIGITAL DIARY. |

CERTIFICATE

This is to certify that **Avinash Shankar Bharadwaj** of class **XII J** has completed the investigatory project as per the requirement of CBSE practical work during the year 2015 – 2016

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature of Subject Teacher Signature of Examiner

ACKNOWLEDGEMENT

I wish to express this sincere appreciation to those who have shared their time and supported us in completing our work

First, I thank **Mr. Pius Mathew**, for his words of encouragement and guidance throughout our project.

I would also like to express our gratitude towards **Mrs. Jyothi** and **Mrs. Smitha.**

I also thank my team mates : Vignesh Raj, Avinash Bhardwaj and Amal Mohan for making the project successful

Finally I would like to thank our family, friends and above all God Almighty.

About C++

C++ is an object oriented programming (OOP) language, developed by Bjarne Stroustrup, and is an extension of C language. It is therefore possible to code C++ in a "C style" or "object-oriented style." In certain scenarios, it can be coded in either way and is thus an effective example of a hybrid language.

C++ is a general purpose object oriented programming language. It is considered to be an intermediate level language, as it encapsulates both high and low level language features. Initially, the language was called 'C with classes’ as it had all properties of C language with an additional concept of 'classes’. However, it was renamed to C++ in 1983.

C++ is one of the most popular languages primarily utilized with system/application software, drivers, client-server applications and embedded firmware.  
  
The main highlight of C++ is a collection of pre-defined classes, which are data types that can be instantiated multiple times. The language also facilitates declaration of user defined classes. Classes can further accommodate member functions to implement specific functionality. Multiple objects of a particular class can be defined to implement the functions within the class. Objects can be defined as instances created at run time. These classes can also be inherited by other new classes which take in the public and protected functionalities by default.   
  
C++ includes several operators such as comparison, arithmetic, bit manipulation, logical operators etc. One of the most attractive features of C++ is that it enables the overloading of certain operators such as addition.   
A few of the essential concepts within C++ programming language include polymorphism, virtual and friend functions, templates, namespaces and pointers.

**A simple C++ program**

#include<iostream.h> **OUTPUT**

void main() HELLO

{

cout<<”HELLO”;

}

DIGITAL DIARY

A Digital diary is a program that works similar to most of the cellular phones and offers many uses ranging from calendars and horoscope to games and an enormous space for contact storage

This program utilizes the concepts of

1. File Handling
2. Inheritance
3. Function Overloading
4. Object Oriented Programming
5. Data Encapsulation

The power of programming and this results offered by C++ are extensively used in this project to create a powerful calculator,  horoscope that accurately predict your future, convertor using the U.S. metric system, currency converter and finally games as an icing on the cake

It has been designed to make life easier and enjoyable and to display the vast amount of opportunity C++ can provide even with the limited resources and compact programming. The coding is easy to follow and appropriate comments have been placed where necessary, though the identifiers names provided are more than enough. A combination of sharp logic and knowledge of C++ programming has been exploited to deliver a robust and simple project that is very easy to use and is very helpful in our everyday lives.

SYSTEM DESIGN

SOURCE CODE

//header files used.

#include<time.h>

#include<iostream.h>

#include<fstream.h>

#include<stdio.h>

#include<stdlib.h>

#include<conio.h>

#include<ctype.h>

#include<string.h>

#include<math.h>

#define BRZ (-5)

#define GLD (-6)

#define DUB (+1)

#define ATH (-1)

#define IST (+2)

#define HWI (-13)

#define LOS (-11)

#define BGK (+4)

#define BEJ (+5)

#define TOK (+6)

#define RUS (+7)

#define CNB (+8)

#define LON (-3)

#define FRA (-2)

#define CSR (-9)

#define NWZ (+10)

#define ECU (-8)

#define ONE (1)

#define THIRTY (-30)

//delay functions

void delay1()

{

for(long i=1;i<20000000;i++)

{}

}

void delay2()

{

for(long i=1;i<200000000;i++)

{}

}

void delay3()

{

for(long i=1;i<300000000;i++)

{}

}

void delay4()

{

for(long i=1;i<1000000;i++)

{}

}

void delay5()

{

for(long i=1;i<5000000;i++)

{}

}

void delay6()

{

for(long i=1;i<500000;i++)

{}

}

void slowload(char a[])

{

int i;

for(i=0;i<strlen(a);i++)

{

cout<<a[i];

delay6();

}

}

void slow(char a[])

{

int i;

for(i=0;i<strlen(a);i++)

{

cout<<a[i];

delay4();

}

}

void slower(char a[])

{

int i;

for(i=0;i<strlen(a);i++)

{

cout<<a[i];

delay5();

}

}

//load

void design1();

void load()

{

{

design1();

gotoxy(2,5);

cout<<" | L O A D I N G | ";

gotoxy(30,21);

cout<<"[";

gotoxy(52,21);

cout<<"]";

}

for(int i=31;i<52;i++)

{

gotoxy(i,21);

slower(" ");

gotoxy(2,13);

slowload("|-----------------------{ J. A. V. A. }-----------------------|");

gotoxy(2,13);

slowload(" ");

delay4();

}

}

//entry

void entry()

{

{

for(int g=0;g<=79;g++)

for(int f=0;f<=25;f++)

{

gotoxy(g,f);

cout<<"H";

}

}

{for(int v=6;v<=19;v++)

for(int d=12;d<=68;d++)

{

gotoxy(d,v);

cout<<" ";

}

}

gotoxy(36,19);

cout<<"JAVA inc.";

gotoxy(28,12);

cout<<"DIGITAL DIARY VERSION 4.0";

delay2();

delay3();

}

//designs

void design1()

{

int i;

for(i=0;i<80;i++)

{

delay4();

gotoxy(i,0);

cout<<" ";

}

for(i=24;i>0;i--)

{delay4();

gotoxy(79,i);

cout<<" ";

}

for(i=79;i>1;i--)

{delay4();

gotoxy(i,26);

cout<<" ";

}

for(i=0;i<27;i++)

{delay4();

gotoxy(0,i);

cout<<" ";

}

}

void replay();

void design3()

{

gotoxy(31,3);

slow(" | P A S S C O D E |");

{

gotoxy(27,5);

cout<<" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

gotoxy(27,6);

cout<<"|";

gotoxy(27,7);

cout<<"|";

gotoxy(27,8);

cout<<"|";

gotoxy(27,9);

cout<<"|";

gotoxy(27,10);

cout<<"|";

{

for(int h=6;h<=11;h++)

{

gotoxy(57,h);

cout<<"|";

}

}

gotoxy(27,11);

cout<<"|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

}

{

gotoxy(27,14);

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

}

{

gotoxy(27,17);

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

}

{

gotoxy(27,20);

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

}

{

gotoxy(27,23);

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

}

{for(int g=27;g<67;g+=10)

for(int f=12;f<24;f++)

{

gotoxy(g,f);

cout<<"|";

}

}

gotoxy(32,13);

cout<<"1";

gotoxy(42,13);

cout<<"2";

gotoxy(52,13);

cout<<"3";

gotoxy(32,16);

cout<<"4";

gotoxy(42,16);

cout<<"5";

gotoxy(52,16);

cout<<"6";

gotoxy(32,19);

cout<<"7";

gotoxy(42,19);

cout<<"8";

gotoxy(52,19);

cout<<"9";

gotoxy(42,22);

cout<<"0";

gotoxy(51,22);

cout<<”<<”";

gotoxy(31,22);

cout<<"del";

}

void pass()

{

char ch;

char pass[4];

int k=0;

/\*

for(int i=0;i<4;i++)

{

gotoxy(k+30,9);

k+=5;

ch=getch();

if(ch!=13)

{

if(ch==8)

{

i=i-2;

}

else

{

pass[i]=ch;

cout<<"\*";

}

}

else

{

pass[i]='\0';

break;

}

}

clrscr();

if(strcmpi(pass,"1234")==0)

{

cout<<"correct";

}

else

cout<<"incorrect";

\*/

for(int i=0;i<5;i++)

{

gotoxy(k+35,9);

k+=5;

pass[i]=getch();

if(pass[i]==13)

{

pass[i]='\0';

break;

}

else if(pass[i]==8)

{

k-=5;

if(k<5)

{

k=0;

gotoxy(k+35,9);

}

else

{

gotoxy(k+30,9);

cout<<" ";

i-=2;

k-=5;

}

}

else

cout<<"\*";

}

clrscr();

if(strcmpi(pass,"1234\0")==0)

{

clrscr();

}

else

{

clrscr();

design1();

gotoxy(0,13);

slow("XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX\n");

gotoxy(0,15);

slow("XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX\n");

gotoxy(0,14);

slower(" E R R O R ");

exit(0);

}

}

void logpass()

{

{

for(int i=10;i>=6;i--)

{

gotoxy(33,i);

slower(" ");

}

delay5();

delay5();

gotoxy(34,5);

slower(" ");

}

{

for(int j=49;j<=62;j++)

{

gotoxy(j,5);

slower("%");

}

}

{

for(int c=6;c<=10;c++)

{

gotoxy(63,c);

slower("%");

}

}

delay2();

clrscr();

design3();

pass();

}

void design4()

{

{

for(int i=10;i>=6;i--)

{

gotoxy(33,i);

cout<<"%";

gotoxy(34,5);

cout<<"%%%%%%%%%%%%%%";

}

}

{

for(int j=6;j<=10;j++)

{

gotoxy(48,j);

cout<<"%";

}

}

}

void loguser()

{

char ch,user[20];

gotoxy(32,13);

slow("| U S E R N A M E |");

{

for(int x=28;x<54;x++)

{

gotoxy(x,18);

cout<<"\_";

}

}

gotoxy(38,17);

gets(user);

if(strcmp(user,"vicky")==0||strcmp(user,"avinash")==0||strcmp(user,"joan")==0||strcmp(user,"amal")==0)

{logpass();

}

else

{

clrscr();

design1();

gotoxy(0,13);

slow("XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX\n");

gotoxy(0,15);

slow("XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX\n");

gotoxy(0,14);

slower(" E R R O R ");

exit(0);

}

}

void design5()

{

{

for(int i=27;i<=54;i++)

{

gotoxy(i,11);

cout<<"@";

gotoxy(i,20);

cout<<"@";

delay5();

}

}

{

for(int j=11;j<=20;j++)

{

gotoxy(27,j);

cout<<"@";

gotoxy(54,j);

cout<<"@";

}

}

design4();

}

void login()

{

design5();

loguser();

}

void welcome()

{

load();

delay4();

clrscr();

design1();

{

for(int g=2;g<=74;g+=5)

for(int k=2;k<25;k++)

{

gotoxy(g,k);

cout<<" ";

}

}

{

for(int l=9;l<18;l++)

for(int h=4;h<75;h++)

{

gotoxy(h,l);

cout<<" ";

}

}

gotoxy(6,10);

slow(" WWW WWW EEEEEEE LL CCCCC OOOOO MMM MMM EEEEEEE");

gotoxy(6,11);

slow(" WWW WWW EE LL C O O MMMM MMMM EE");

gotoxy(6,12);

slow(" WWW WWW EE LL C O O MMM MM MMM EE");

gotoxy(6,13);

slow(" WWW WW WWW EEEEE LL C O O MMM MMM EEEEE");

gotoxy(6,14);

slow(" WWWWW WWWWW EE LL C O O MMM MMM EE");

gotoxy(6,15);

slow(" WWW WWW EEEEEEE LLLLLLLL CCCCC OOOOO MMM MMM EEEEEEE");

delay3();

clrscr();

}

//address book

struct details //structure details

{

long int telno;

char name[20];

}s;

//address book : search by name

void name()

{

clrscr();

design1();

char yn;

int c = 0;

ifstream fin;

fin.open("address.txt",ios::in);

char name[20];

cout<<endl;

gotoxy(3,3);

cout<<"PLEASE ENTER THE NAME : ";

cin>>name;

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

{

if(strcmpi(name,s.name)==0)

{

gotoxy(3,5);

cout<<"Searching ";

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

{

delay1();

cout<<".";

}

gotoxy(3,7);

cout<<"NAME :"<<'\t'<<s.name<<endl;

gotoxy(3,9);

cout<<"TEL :"<<'\t'<<s.telno<<endl;

c = 1;

gotoxy(3,11);

cout<<"PRESS ANY KEY TO CONTINUE ";

getch();

break;

}

}

if(c==0)

{

gotoxy(3,5);

cout<<"Searching ";

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

{

delay1();

cout<<".";

}

gotoxy(3,7);

cout<<"SEARCH COMPLETE. CONTACT DOES NOT EXIST!";

getch();

fin.close();

}//end of case 1 label

}

//address book : search by number

void number()

{

clrscr();

design1();

int check = 0;

char yn;

long int telno;

cout<<endl;

gotoxy(3,3);

cout<<"PLEASE ENTER THE TELEPHONE NUMBER : ";

cin>>telno;

ifstream fin;

fin.open("address.txt",ios::in);

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

{

if(telno == s.telno)

{

gotoxy(3,5);

cout<<"Searching";

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

{

delay1();

cout<<".";

}

gotoxy(3,7);

cout<<"NAME :"<<'\t'<<s.name<<endl;

gotoxy(3,9);

cout<<"TEL :"<<'\t'<<s.telno<<endl;

check = 1;

gotoxy(3,11);

cout<<"PRESS ANY KEY TO CONTINUE ";

getch();

break;

}

}//end of while loop

if(check==0)

{

gotoxy(3,5);

cout<<"Searching";

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

{

delay1();

cout<<".";

}

gotoxy(3,7);

cout<<"SEARCH COMPLETE. CONTACT DOES NOT EXIST! ";

getch();

}

fin.close();

}

//address book : search

void search()

{

label: clrscr();

design1();

details s;

int k;

char yn;

gotoxy(3,3);

cout<<"SEARCH IN TERMS OF : (PRESS (3) TO GO BACK)"<<endl;

gotoxy(3,4);

cout<<"1. NAME ";

gotoxy(3,6);

cout<<"2. NUMBER";

gotoxy(3,8);

cout<<"3. BACK<--"<<endl;

gotoxy(3,19);

cout<<"CHOICE : ";

cin>>k;

switch(k)

{

case 1 : name();

break;

case 2 : number();

break;

case 3 : return;

}//end of switch construct

clrscr();

gotoxy(3,3);

if(k!=3)

cout<<"Do you wish to continue searching?[y/n] : ";

cin>>yn;

if(yn=='y')

goto label;

}//end of search.

void append() //append

{

int N;

char ch;

label: clrscr();

design1();

gotoxy(3,3);

cout<<"HOW MANY CONTACTS DO YOU WISH TO ADD? : ";

cin>>N;

details S;

ofstream fout;

fout.open("address.txt",ios::app);

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

{

clrscr();

design1();

gotoxy(3,5);

cout<<"ENTER THE NAME OF CONTACT "<<i+1<<" : ";

cin>>S.name;

gotoxy(3,6);

cout<<"ENTER THE TEL NO. OF CONTACT "<<i+1<<" : ";

cin>>S.telno;

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

}

fout.close();

gotoxy(3,8);

cout<<"Adding Contact";

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

{

delay1();

cout<<".";

}

gotoxy(3,10);

cout<<"CONTACT(S) ADDED! Do you wish to add more contacts? [y/n] : ";

cin>>ch;

if(ch=='y')

goto label;

}

//Address : Modify

void modify()

{

label: int flag=0;

clrscr();

design1();

char ch;

long telno;

char NAME[20];

fstream file;

file.open("address.txt",ios::in|ios::out|ios::binary);

gotoxy(3,5);

cout<<"Enter the OLD Name and Telephone number";

gotoxy(3,6);

cout<<"OLD NAME : ";

gets(NAME);

cout<<endl;

gotoxy(3,8);

cout<<"OLD NUMBER : ";

cin>>telno;

while(file.read((char\*)&s,sizeof(s)))

{

long pos=file.tellg();

if(strcmpi(NAME,s.name)==0 && telno==s.telno)

{

flag=1;

gotoxy(3,11);

cout<<"NEW NAME : ";

cin>>s.name;

gotoxy(3,13);

cout<<"NEW TEL. NUMBER : ";

cin>>s.telno;

file.seekp(pos-sizeof(s),ios::beg);

file.write((char\*)&s,sizeof(s));

gotoxy(3,18);

cout<<"CONTACT(S) UPDATED";

break;

}

}

if(flag==0)

{

gotoxy(3,13);

cout<<"INVALID";

gotoxy(3,18);

cout<<"CONTACT UNAVAILABLE!";

}

gotoxy(3,20);

cout<<"DO YOU WISH TO UPDATE ANY MORE? [y/n] :";

cin>>ch;

if(ch=='y')

goto label;

}

void address() //start of address

{

int a,t;

char yn;

label: do{

clrscr();

design1();

gotoxy(33,3);

cout<<"ADDRESS BOOK:"<<endl;

gotoxy(13,5);

cout<<"1 SEARCH CONTACT"<<endl;

gotoxy(45,5);

cout<<"2.ADD CONTACT "<<endl;

gotoxy(13,7);

cout<<"3.UPDATE CONTACT DETAILS"<<endl;

gotoxy(45,7);

cout<<"4.BACK.--->"<<endl;

gotoxy(3,17);

cout<<"CHOICE : ";

cin>>a;

switch(a)

{

case 1 : search();

break;

case 2 : append();

break;

case 3 : modify() ;

break;

case 4 : return;

default : gotoxy(3,8);

cout<<"INVALID CHOICE. PRESS ANY KEY TO CONTINUE : ";

getch();

clrscr();

goto label;

}//end of switch

clrscr();

gotoxy(3,3);

cout<<"Do you wish to remain in the address book?[y/n]: ";

cin>>yn;

if(yn=='y')

goto label;

else return;

}while(a!=3);

}

//CONVERTER

// (1)CURRENCY

void currency()

{

clrscr();

design1();

float bhd,pound,rupees,euro,dollar,dirham,saudi;

gotoxy(33,3);

cout<<"CURRENCY CONVERTOR";

gotoxy(3,5);

cout<<"ENTER THE AMOUNT IN \*\*BAHRAINI DINARS\*\* : ";

cin>>bhd;

rupees = bhd\*172.87;

euro = bhd\*2.33;

dollar = bhd\*2.65;

dirham = bhd\*9.74;

saudi = bhd\*9.94;

pound = bhd\*1.74;

for(int y=2;y<78;y++)

{

gotoxy(y,5);

cout<<" ";

}

gotoxy(27,7);

cout<<"CONVERSION RATES OF 2 0 1 5 " ;

gotoxy(15,9);

cout<<"BAHRAIN DINARS : "<<bhd;

gotoxy(45,9);

cout<<"INDIAN RUPEES : " <<rupees;

gotoxy(15,11);

cout<<"EUROS : " <<euro;

gotoxy(45,11);

cout<<"DOLLARS : "<<dollar;

gotoxy(15,13);

cout<<"DHIRHAMS : "<<dirham;

gotoxy(45,13);

cout<<"SAUDI RIYALS : "<<saudi;

gotoxy(15,15);

cout<<"BRITISH POUNDS : "<<pound;

delay3();

gotoxy(50,19);

cout<<"PRESS ANY KEY TO CONTINUE ";

getch();

}//end of currency

//CONVERTER

//(2)MASS

void mass()

{

clrscr();

design1();

int choice;

float initial,final;

gotoxy(33,3);

cout<<" MASS CONVERTOR";

gotoxy(3,5);

cout<<"Enter the amount to be converted: ";

cin>>initial;

gotoxy(3,5);

cout<<"Choose the type of conversion: ";

gotoxy(15,7);

cout<<"1.Kilograms to Grams";

gotoxy(45,7);

cout<<"2.Kilograms to Pounds";

gotoxy(15,9);

cout<<"3.Grams to Kilograms";

gotoxy(45,9);

cout<<"4.Grams to Pounds";

gotoxy(15,11);

cout<<"5.Pounds to Kilograms";

gotoxy(45,11);

cout<<"6.Pounds to Grams";

gotoxy(3,13);

cout<<"CHOICE: ";

cin>>choice;

switch(choice)

{

case 1: final = 1000\*initial;

break;

case 2: final = 2.20462\*initial;

break;

case 3: final = 0.001\*initial;

break;

case 4: final = 2.20462\*initial\*0.001;

break;

case 5: final = 0.453592\*initial;

break;

case 6: final = 0.453592\*initial\*1000;

break;

default: cout<<"INVALID CHOICE!";

break;

}

gotoxy(3,13);

cout<<"THE CONVERTED MASS : " <<final;

gotoxy(50,19);

cout<<"PRESS ANY KEY TO CONTINUE ";

getch();

}//end of mass.

//CONVERTER

//(3) Length Converter

void length()

{

clrscr();

design1();

gotoxy(33,3);

cout<<"LENGTH CONVERTOR";

int choice;

float initial,final;

gotoxy(2,5);

cout<<"Enter the amount to be converted: ";

cin>>initial;

gotoxy(3,5);

cout<<"Choose the type of conversion: ";

gotoxy(15,7);

cout<<"1.Kilometer to Meter";

gotoxy(45,7);

cout<<"2.Kilometer to Yards";

gotoxy(15,9);

cout<<"3.Meter to Kilometer";

gotoxy(45,9);

cout<<"4.Meter to Yards";

gotoxy(15,11);

cout<<"5.Meter to Feet";

gotoxy(45,11);

cout<<"6.Centimeter to Meter";

gotoxy(3,17);

cout<<"CHOICE: ";

cin>>choice;

switch(choice)

{

case 1: final = 1000\*initial;

break;

case 2: final = 1093.61\*initial;

break;

case 3: final = 0.001\*initial;

break;

case 4: final = 1093.61\*initial\*0.001;

break;

case 5: final = 3.28084\*initial;

break;

case 6: final = 0.01\*initial;

break;

default : cout<<"Invalid Choice";

}//end of swtich

gotoxy(3,17);

cout<<"THE CONVERTED LENGTH : " <<final;

gotoxy(50,19);

cout<<"PRESS ANY KEY TO CONTINUE ";

getch();

}//end of length

//CONVERTER

//(3) Temperature

void temperature()

{

clrscr();

design1();

gotoxy(33,3);

cout<<"TEMPERATURE CONVERTER";

int choice;

float initial,final;

gotoxy(2,6);

cout<<"Enter the amount to be converted: ";

cin>>initial;

gotoxy(3,6);

cout<<"Choose the type of conversion: ";

gotoxy(15,7);

cout<<"1.Kelvin to Celsius";

gotoxy(45,7);

cout<<"2.Kelvin to Farenheit";

gotoxy(15,9);

cout<<"3.Celsius to Kelvin";

gotoxy(45,9);

cout<<"4.Celsius to Farenheit";

gotoxy(15,11);

cout<<"5.Farenheit to Celsius";

gotoxy(45,11);

cout<<"6.Farenheit to Kelvin";

gotoxy(3,17);

cout<<"CHOICE: ";

cin>>choice;

switch(choice)

{

case 1: final = initial-273.15;

break;

case 2: final = (initial-273.15)\*9/5+32;

break;

case 3: final = 273.15 + initial;

break;

case 4: final = initial\*9/5+32;

break;

case 5: final = (initial-32)\*5/9;

break;

case 6: final = (initial-32)\*5/9+273.15;;

break;

default : cout<<"Invalid Choice";

}//end of switch

gotoxy(3,17);

cout<<"THE CONVERTED TEMPERATURE : " <<final;

gotoxy(50,19);

cout<<"PRESS ANY KEY TO CONTINUE ";

getch();

}//end of length

//THE CONVERTER

void convertionOPT()

{

next:

clrscr();

design1();

int choice;

gotoxy(33,3);

cout<<"CONVERTOR";

gotoxy(3,5);

cout<<"Choose the UNIT to be converted:";

gotoxy(15,9);

cout<<"1.Mass";

gotoxy(45,9);

cout<<"2.Length";

gotoxy(15,11);

cout<<"3.Temperature";

gotoxy(45,11);

cout<<"4.Currency";

gotoxy(15,13);

cout<<"5.Back<---";

gotoxy(3,17);

cout<<"CHOICE : ";

cin>>choice;

switch(choice)

{

case 1: clrscr();

mass();

break;

case 2: clrscr();

length();

break;

case 3: clrscr();

temperature();

break;

case 4: clrscr();

currency();

break;

case 5: return;

default: cout<<"Invalid Choice";

}//end of switch

gotoxy(3,20);

cout<<"Do you wish to remain in the Converter?[y/n] : ";

goto next;

}//end of THE CONVERTER

//Apps : BMI

void bmi()

{

clrscr();

design1();

float h,w,bmi;

gotoxy(33,3);

cout<<"BODY MASS INDEX";

gotoxy(15,7);

cout<<"YOUR HEIGHT(in metres): ";

cin>>h;

gotoxy(45,7);

cout<<"YOUR WEIGHT(in kilograms): ";

cin>>w;

bmi = w/pow(h,2);

gotoxy(35,11);

cout<<"Your BMI: " <<bmi;

gotoxy(35,13);

if(bmi<18)

{

cout<<"You are SLIM & TRIM! ";

}

else if (bmi>22)

{

cout<<"Oh No! You're a bit OVERWEIGHT!";

}

else

{

cout<<"You are PERFECTY HEALTHY! ";

}

gotoxy(50,19);

cout<<"PRESS ANY KEY TO CONTINUE";

getch();

}

//IQ Calculator

void iq()

{

clrscr();

design1();

float mental,chron,iq;

gotoxy(33,3);

cout<<"INTELLIGENCE QUOTIENT";

gotoxy(15,7);

cout<<"ENTER YOUR MENTAL AGE : ";

cin>>mental;

gotoxy(45,7);

cout<<"ENTER YOUR ACTUAL AGE : ";

cin>>chron;

iq=(mental/float(chron))\*100;

{

if(iq<100)

{

gotoxy(3,13);

cout<<"You must introspect yourself and try to improve your brain.\n";

gotoxy(3,14);

cout<<"Your IQ is "<<iq;

}

if(mental==chron)

{

gotoxy(3,13);

cout<<"You have a good brain!";

gotoxy(3,14);

cout<<"Your IQ is "<<"100";

}

if(iq>100&&iq<=159)

{

gotoxy(3,13);

cout<<"You are extremely smart! ";

gotoxy(3,14);

cout<<"Your IQ is "<<iq;

}

if(iq>160)

{

gotoxy(3,13);

cout<<"You are the next Einstein! ";

gotoxy(3,14);

cout<<"Your IQ is "<<iq;

}

}

gotoxy(50,19);

delay2();

cout<<"PRESS ANY KEY TO CONTINUE ";

getch();

}

//end of IQ

//world clock

time\_t clock()

{

clrscr();

design1();

gotoxy(53,24);

cout << "PRESS ANY KEY TO CONTINUE";

gotoxy(25,3);

cout << " WORLD CLOCK ";

time\_t rawtime;

while(!kbhit())

{

tm\*ptm;

time (&rawtime);

ptm =localtime(&rawtime);

gotoxy(45,5);

cout<<"NUUK [GREENLAND] : ";

gotoxy(4,7);

cout<<"DUBAI [UAE] : ";

gotoxy(4,9);

cout<<"ATHENS [GREECE] : ";

gotoxy(4,11);

cout<<"CHENNAI [INDIA] : ";

gotoxy(4,13);

cout<<"HONOLULU [AMERICA] : ";

gotoxy(4,15);

cout<<"LOS ANGELES [AMERICA]: ";

gotoxy(4,17);

cout<<"BANGKOK [THAILAND] : ";

gotoxy(4,19);

cout<<"AUCKLAND [NEWZEALAND]: ";

gotoxy(45,7);

cout<<"BEIJING [CHINA] : ";

gotoxy(45,9);

cout<<"TOKYO [JAPAN] : ";

gotoxy(45,11);

cout<<"CANBERRA [AUSTRALIA] : ";

gotoxy(45,13);

cout<<"LONDON [BRITAIN] : ";

gotoxy(45,15);

cout<<"PARIS [FRANCE] : ";

gotoxy(45,17);

cout<<"SAN JOSE [COSTA RICA]: ";

gotoxy(45,19);

cout<<"QUITO [ECUADOR] : ";

gotoxy(4,21);

cout<<"BRASILIA [BRAZIL] : ";

gotoxy(45,21);

cout<<"CHITA [RUSSIA] : ";

gotoxy(4,5);

cout<<"MANAMA [BAHRAIN] : ";

gotoxy(27,5);

if(((ptm->tm\_hour)%24)<10)

cout<<"0";

cout<<(ptm->tm\_hour)%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(27,21);

if(((ptm->tm\_hour+BRZ)%24)<10)

cout <<"0";

cout<<(ptm->tm\_hour+BRZ)%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(68,21);

if(((ptm->tm\_hour+RUS)%24)<10)

cout <<"0";

cout<<(ptm->tm\_hour+RUS)%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(68,5);

if(((ptm->tm\_hour+GLD)%24)<10)

cout <<"0";

cout<<(ptm->tm\_hour+GLD)%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(27,7);

if(((ptm->tm\_hour+DUB)%24)<10)

cout<<"0";

cout<<(ptm->tm\_hour+DUB)%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(27,9);

if(((ptm->tm\_hour+ATH)%24)<10)

cout <<"0";

cout<<(ptm->tm\_hour+ATH)%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(27,13);

if((abs((ptm->tm\_hour+HWI))%24)<10)

cout <<"0";

cout<<abs((ptm->tm\_hour+HWI))%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(27,15);

if(((ptm->tm\_hour+LOS)%24)<10)

cout <<"0";

cout<<abs((ptm->tm\_hour+LOS))%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(27,11);

ptm->tm\_min=ptm->tm\_min+30;

gotoxy(30,11);

if(ptm->tm\_min<10)

cout <<"0";

if(ptm->tm\_min>60)

{

ptm->tm\_hour+ONE;

cout <<ptm->tm\_min+THIRTY;

}

else

cout <<ptm->tm\_min;

cout <<":";

gotoxy(27,11);

if(((ptm->tm\_hour+IST)%24)<10)

cout <<"0";

cout<<(ptm->tm\_hour+IST)%24;

cout <<":";

gotoxy(33,11);

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

ptm->tm\_min=ptm->tm\_min-30;

gotoxy(27,17);

if(((ptm->tm\_hour+BGK)%24)<10)

cout <<"0";

cout<<(ptm->tm\_hour+BGK)%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(27,19);

if(((ptm->tm\_hour+NWZ)%24)<10)

cout <<"0";

cout<<(ptm->tm\_hour+NWZ)%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(68,7);

if(((ptm->tm\_hour+BEJ)%24)<10)

cout <<"0";

cout<<(ptm->tm\_hour+BEJ)%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(68,9);

if(((ptm->tm\_hour+TOK)%24)<10)

cout <<"0";

cout<<(ptm->tm\_hour+TOK)%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(68,11);

if(((ptm->tm\_hour+CNB)%24)<10)

cout <<"0";

cout<<(ptm->tm\_hour+CNB)%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(68,13);

if((abs((ptm->tm\_hour+LON))%24)<10)

cout <<"0";

cout<<(ptm->tm\_hour+LON)%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(68,15);

if(((ptm->tm\_hour+FRA)%24)<10)

cout <<"0";

cout<<abs((ptm->tm\_hour+FRA))%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(68,17);

if((abs((ptm->tm\_hour+CSR))%24)<10)

cout <<"0";

cout<<abs((ptm->tm\_hour+CSR))%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

gotoxy(68,19);

if(((ptm->tm\_hour+ECU)%24)<10)

cout <<"0";

cout<<(ptm->tm\_hour+ECU)%24;

cout <<":";

if(ptm->tm\_min<10)

cout <<"0";

cout <<ptm->tm\_min;

cout <<":";

if(ptm->tm\_sec<10)

cout <<"0";

cout <<ptm->tm\_sec;

}

return (0);

}

void worldclock()

{

time\_t rawtime;

rawtime=clock();

}

//applications

void apps()

{

int choice;

char yn;

back:

clrscr();

design1();

gotoxy(33,3);

cout<<"APPLICATIONS";

gotoxy(15,8);

cout<<"1.Body Mass Index";

gotoxy(45,8);

cout<<"2.Intelligence Quotient";

gotoxy(15,10);

cout<<"3.World Clock";

gotoxy(45,10);

cout<<"4.Back<---";

gotoxy(3,13);

cout<<"CHOICE : ";

cin>>choice;

switch(choice)

{

case 1: bmi();

break;

case 2: iq();

break;

case 3: worldclock();

break;

case 4: return;

default: gotoxy(3,13);

cout<<"Invalid Choice!";

goto back;

}

clrscr();

cout<<"Do you wish to stay in APPLICATIONS?[y/n] : ";

cin>>yn;

if(yn=='y')

goto back;

else

return;

}

//HORRORSCOPE

void horrorscope()

{

char yn;

next :

clrscr();

design1();

char name[20];

int date;

int month;

gotoxy(33,3);

cout<<"HOROSCOPE";

gotoxy(5,5);

cout<<"ENTER YOUR NAME(in capital letters): ";

gets(name);

gotoxy(5,7);

cout<<"ENTER DATE(1-31): ";

cin>>date;

gotoxy(5,9);

cout<<"ENTER MONTH(1-12): ";

cin>>month;

clrscr();

if((month==1&&date>=20)||(month==2&&date<=18))

{

design1();

gotoxy(3,3);

cout<<name;

gotoxy(3,4);

cout<<"Your Zodiac sign is AQUARIUS: Your emotions may be a bit reserved.";

gotoxy(3,5);

cout<<"It's OK to take a break from the activity and simply lay low.";

gotoxy(3,6);

cout<<"This is a good time to sit back and receive.";

gotoxy(3,7);

cout<<"Don't make any sudden moves. Let the energy of the day take you.";

gotoxy(3,8);

cout<<"The closer you can get to the intuitiveness of your inner self,";

gotoxy(3,9);

cout<<"the closer you'll be to a romantic partner or family member.";

gotoxy(3,10);

cout<<"YOU HAVE TO APPRECIATE THIS TEAM OTHERWISE BAD LUCK WILL FOLLOW YOU!";

}

else if((month==2&&date>=19)||(month==3&&date<=20))

{

design1();

gotoxy(3,3);

cout<<name;

gotoxy(3,4);

cout<<"Your Zodiac sign is PISCES: Family issues play an important role.";

gotoxy(3,5);

cout<<"Speak from your heart and tell your closest relatives how much";

gotoxy(3,6);

cout<<"they really mean to you. In general, you might feel a bit reserved";

gotoxy(3,7);

cout<<"with your energy. Don't feel like you have to make any great moves.";

gotoxy(3,8);

cout<<"just now. It's more a time to enjoy what you've worked for.";

gotoxy(3,9);

cout<<"Kick back and reap the rewards of all your hard work.";

gotoxy(3,10);

cout<<"YOU HAVE TO APPRECIATE THIS TEAM OTHERWISE BAD LUCK WILL FOLLOW YOU!";

}

else if((month==3&&date>=21)||(month==4&&date<=19))

{

design1();

gotoxy(3,3);

cout<<name;

gotoxy(3,4);

cout<<"Your Zodiac sign is ARIES: You may feel some indecision regarding a";

gotoxy(3,5);

cout<<"loved one today, Aries. Something could be urging you to act in ";

gotoxy(3,6);

cout<<"this department, yet you might find that you just want to lay low.";

gotoxy(3,7);

cout<<"Realize that there's an important next step that you must take.";

gotoxy(3,8);

cout<<"Think the situation through before you make a move. In fact,";

gotoxy(3,9);

cout<<"this day is best spent gathering data. Perhaps you should wait";

gotoxy(3,10);

cout<<"before doing something about it.";

gotoxy(3,11);

cout<<"YOU HAVE TO APPRECIATE THIS TEAM OTHERWISE BAD LUCK WILL FOLLOW YOU!";

}

else if((month==4&&date>=20)||(month==5&&date<=20))

{

design1();

gotoxy(3,3);

cout<<name;

gotoxy(3,4);

cout<<" ,Your Zodiac sign is TAURUS: Today is a great day to work on getting";

gotoxy(3,5);

cout<<"yourself together. Your emotions are stable, leaving your heart free";

gotoxy(3,6);

cout<<"to soar in the clouds. Feel free to daydream. Now is a good time to ";

gotoxy(3,7);

cout<<"make plans with a romantic partner. Solidify your relationship and ";

gotoxy(3,8);

cout<<"confirm your commitment to each other. If you're single, now is a good";

gotoxy(3,9);

cout<<"time to set a plan that will bring you closer to your greatest fantasy.";

gotoxy(3,10);

cout<<"YOU HAVE TO APPRECIATE THIS TEAM OTHERWISE BAD LUCK WILL FOLLOW YOU!";

}

else if((month==5&&date>=21)||(month==6&&date<=20))

{

design1();

gotoxy(3,3);

cout<<name;

gotoxy(3,4);

cout<<"Your Zodiac sign is GEMINI: There's a somewhat conservative air to your";

gotoxy(3,5);

cout<<"feelings today. You might be called on to get serious for a second";

gotoxy(3,6);

cout<<"and take care of business. This may not be a bad idea. Believe it or not,";

gotoxy(3,7);

cout<<"this nature can help you move into a deeper relationship with someone";

gotoxy(3,8);

cout<<"special. Let your creative nature shine and try to do more listening";

gotoxy(3,9);

cout<<"than talking. Make your dreams a reality.";

gotoxy(3,10);

cout<<"YOU HAVE TO APPRECIATE THIS TEAM OTHERWISE BAD LUCK WILL FOLLOW YOU!";

}

else if((month==6&&date>=21)||(month==7&&date<=22))

{

design1();

gotoxy(3,3);

cout<<name;

gotoxy(3,4);

cout<<"Your Zodiac sign is CANCER: There's a conflicting aspect at play that";

gotoxy(3,5);

cout<<"may leave you feeling unsure of how to proceed, Cancer. On the one hand,";

gotoxy(3,6);

cout<<"you feel like you want to plan and get your emotions stabilized so you ";

gotoxy(3,7);

cout<<"can function at full capacity. On the other hand, there may be something";

gotoxy(3,8);

cout<<"pulling you into the clouds. This is your heart talking. Listen to it and ";

gotoxy(3,9);

cout<<"find a compromise between the two energies";

gotoxy(3,10);

cout<<"YOU HAVE TO APPRECIATE THIS TEAM OTHERWISE BAD LUCK WILL FOLLOW YOU!";

}

else if((month==7&&date>=23)||(month==8&&date<=22))

{

design1();

gotoxy(3,3);

cout<<name;

gotoxy(3,4);

cout<<"Your Zodiac sign is LEO: Get your chores done today so you have time to play";

gotoxy(3,5);

cout<<"tonight. Plan a romantic getaway with someone you love. Feel free to let your";

gotoxy(3,6);

cout<<"mood carry you to a whole new realm of pleasure. Today is a great day to";

gotoxy(3,7);

cout<<"explore more of your nature and begin to manifest some of the ideas that";

gotoxy(3,8);

cout<<"have been rattling around in your head for some time.";

gotoxy(3,9);

cout<<"YOU HAVE TO APPRECIATE THIS TEAM OTHERWISE BAD LUCK WILL FOLLOW YOU!";

}

else if((month==8&&date>=23)||(month==9&&date<=22))

{

design1();

gotoxy(3,3);

cout<<name;

gotoxy(3,4);

cout<<"Your Zodiac sign is VIRGO: This is an excellent day to tell people exactly";

gotoxy(3,5);

cout<<"how you feel, Virgo. Your emotions are more stable than usual, so open up ";

gotoxy(3,6);

cout<<"and let your heart speak. What you learn today will be extremely valuable";

gotoxy(3,7);

cout<<"for the future, so pay attention. Keep an eye on what is real, but feel";

gotoxy(3,8);

cout<<"free to let your heart explore all possibilities. Follow your emotions";

gotoxy(3,9);

cout<<"and trust your instincts. You stand to gain quite a bit. ";

gotoxy(3,10);

cout<<"YOU HAVE TO APPRECIATE THIS TEAM OTHERWISE BAD LUCK WILL FOLLOW YOU!";

}

else if((month==9&&date>=23)||(month==10&&date<=22))

{

design1();

gotoxy(3,3);

cout<<name;

gotoxy(3,4);

cout<<"Your Zodiac sign is LIBRA: Today may be tough for you, Libra. It might seem";

gotoxy(3,5);

cout<<"like nothing is fitting into place. Could it be that you're trying to be";

gotoxy(3,6);

cout<<"someone you aren't? If things aren't working out, don't press the issue.";

gotoxy(3,7);

cout<<"You're better off waiting for a time when you feel more confident about";

gotoxy(3,8);

cout<<"who you are and where you're going. Have a cup of tea and relax.";

gotoxy(3,9);

cout<<"Releasing stress can free your energy for other uses.";

gotoxy(3,10);

cout<<"YOU HAVE TO APPRECIATE THIS TEAM OTHERWISE BAD LUCK WILL FOLLOW YOU!";

}

else if((month==10&&date>=23)||(month==11&&date<=21))

{

design1();

gotoxy(3,3);

cout<<name;

gotoxy(3,4);

cout<<"Your Zodiac sign is SCORPIO: Enjoy yourself today, Scorpio. You have a";

gotoxy(3,5);

cout<<"great deal to be grateful for, so give thanks. Take pride in all that";

gotoxy(3,6);

cout<<"you've accomplished so far and share your joy with others. Feel free";

gotoxy(3,7);

cout<<"to let go of the reins and sit back and get comfortable. You've worked";

gotoxy(3,8);

cout<<"hard for a reason. If you don't enjoy life now, when are you going to";

gotoxy(3,9);

cout<<"do it? Take time to be with loved ones tonight.";

gotoxy(3,10);

cout<<"YOU HAVE TO APPRECIATE THIS TEAM OTHERWISE BAD LUCK WILL FOLLOW YOU!";

}

else if((month==11&&date>=22)||(month==12&&date<=21))

{

design1();

gotoxy(3,3);

cout<<name;

gotoxy(3,4);

cout<<"Your Zodiac sign is SAGUITTARIUS: Today may be one of those days when";

gotoxy(3,5);

cout<<"you don't know which way to turn, Sagittarius. You're spinning around,";

gotoxy(3,6);

cout<<"and no direction looks good to you. For some reason, your engine won't";

gotoxy(3,7);

cout<<"turn off, and you just keep going in circles. If you can, stop and";

gotoxy(3,8);

cout<<"take a rest. Walk around for a while until your head stops spinning.";

gotoxy(3,9);

cout<<"Wait until the air clears before making your next major move.";

gotoxy(3,10);

cout<<"YOU HAVE TO APPRECIATE THIS TEAM OTHERWISE BAD LUCK WILL FOLLOW YOU!";

}

else if((month==12&&date>=22)||(month==1&&date<=19))

{

design1();

gotoxy(3,3);

cout<<name;

gotoxy(3,4);

cout<<"Your Zodiac sign is CAPRICORN: Romance is coming your way today as long";

gotoxy(3,5);

cout<<"as you stay levelheaded about the immediate situation, Capricorn.";

gotoxy(3,6);

cout<<"Take care of menial daily tasks and then let your heart soar.";

gotoxy(3,7);

cout<<"You'll find that you have a strong connection to your emotions.";

gotoxy(3,8);

cout<<"Trust your instincts and feel free to let your heart take control.";

gotoxy(3,9);

cout<<"Be realistic about your relationships with others,";

gotoxy(3,10);

cout<<"but push the boundaries once they've been set.";

gotoxy(3,11);

cout<<"YOU HAVE TO APPRECIATE THIS TEAM OTHERWISE BAD LUCK WILL FOLLOW YOU!";

}

gotoxy(3,18);

cout<<"PRESS ANY KEY TO CONTINUE :";

getch();

clrscr();

gotoxy(3,11);

cout<<"Do you wish to see the HOROSCOPE of another person?[y/n] : ";

cin>>yn;

if(yn=='y')

goto next;

else

return;

}//end of horrorscope.

//CALCULATOR

//(\*)FACTORIAL

double fact(double a)

{

int i,num;

double ans=1;

for(i=1;i<=a;i++)

{

ans = ans\*i;

}

return ans;

}

//(1)SIMPLE calculator

void simple()

{

double ans = 1,num;

char opr,yn;

up :

clrscr();

design1();

gotoxy(33,3);

cout<<"BASIC CALCULATOR";

gotoxy(5,5);

cout<<"Enter the number ";

cin>>ans;

above :

gotoxy(5,6);

cout<<"Operation : ";

cin>>opr;

gotoxy(5,7);

cout<<"Enter the number ";

cin>>num;

switch(opr)

{

case '+' : ans = num + ans;

break;

case '\*' : ans = num\*ans;

break;

case '/' : ans = ans/num;

break;

case '-' : ans = ans - num;

break;

default : cout<<"Invalid choice.";

goto above;

}//end of switch

gotoxy(3,9);

cout<<" ANSWER = " <<ans;

gotoxy(3,20);

cout<<" Do you wish to continue CALCULATING?[y/n] ";

cin>>yn;

if(yn=='y')

{

clrscr();

goto up;

}

else return;

}

//CALCULATOR

//(2)Scientific

void scientific()

{

int opr;

double ans,a;

char yn;

up : clrscr();

design1();

gotoxy(35,3);

cout<<"SCIENTIFIC CALCULATOR";

gotoxy(15,5);

cout<<"1.Square Root";

gotoxy(45,5);

cout<<"2.Square";

gotoxy(15,7);

cout<<"3.Natural Log";

gotoxy(45,7);

cout<<"4.Add";

gotoxy(15,9);

cout<<"5.Multiply";

gotoxy(45,9);

cout<<"6.Divide";

gotoxy(15,11);

cout<<"7.Subtract";

gotoxy(45,11);

cout<<"8.Factorial";

gotoxy(15,13);

cout<<"9.Reciprocal";

gotoxy(3,15);

cout<<"Operation : ";

cin>>opr;

gotoxy(3,17);

cout<<" Enter the number : ";

cin>>a;

switch(opr)

{

case 1: ans=sqrt(a);

break;

case 2: ans= pow(a,2);

break;

case 3: ans = log(a);

break;

case 4: gotoxy(20,17);

cout<<"Enter the number to add : ";

cin>>ans;

ans = a+ans;

break;

case 5: gotoxy(20,17);

cout<<"Enter the number to multiply : ";

cin>>ans;

ans = a\*ans;

break;

case 6: gotoxy(20,17);

cout<<"Enter the number to divide : ";

cin>>ans;

ans=ans/a;

break;

case 7: gotoxy(20,17);

cout<<"Enter the number to subtract : ";

cin>>ans;

ans = ans-a;

break;

case 8: ans=fact(a);

break;

case 9: ans=1/a;

break;

default:gotoxy(3,17);

cout<<endl<<"Invalid Choice.Try again.";

}

gotoxy(3,18);

cout<<"ANSWER = "<<ans;

gotoxy(3,20);

cout<<"Do you want to continue CALCULATING?[y/n]? : ";

cin>>yn;

if(yn=='y')

goto up;

else return;

}

//CALCULATOR

//(3)TRIGONOMETRIC

void trigno()

{

int c=0,opr;

float ans,a;

char yn;

while(c==0)

{

above:

up:

clrscr();

design1();

gotoxy(27,3);

cout<<"TRIGONOMETRIC CALCULATOR";

gotoxy(15,5);

cout<<"1.Sine";

gotoxy(45,5);

cout<<"2.Cosine";

gotoxy(15,7);

cout<<"3.Tangent";

gotoxy(45,7);

cout<<"4.Cosecant";

gotoxy(15,9);

cout<<"5.Secant";

gotoxy(45,9);

cout<<"6.Cotangent";

gotoxy(15,11);

cout<<"7.Sine Inverse";

gotoxy(45,11);

cout<<"8.Cosine Inverse";

gotoxy(15,13);

cout<<"9.Tangent Inverse";

gotoxy(3,15);

cout<<"Operation : ";

cin>>opr;

gotoxy(3,17);

cout<<"Enter the number : ";

cin>>a;

switch(opr)

{

case 1: ans = sin(a);

break;

case 2: ans = cos(a);

break;

case 3: ans = tan(a);

break;

case 4: ans = 1/sin(a);

break;

case 5: ans = 1/cos(a);

break;

case 6: ans = 1/tan(a);

break;

case 7: ans = asin(a);

break;

case 8: ans = acos(a);

break;

case 9: ans = atan(a);

break;

default:cout<<"Invalid Choice.Try again";

goto above;

}//end of switch

gotoxy(3,18);

cout<<"ANSWER = "<<ans;

gotoxy(3,20);

cout<<"Do you wish to continue CALCULATING?[y/n] : ";

cin>>yn;

if(yn=='y')

goto up;

else if(yn=='n')

c++;

}

}

//Calculator

void calculator()

{

int choice = 0;

next :

clrscr();

design1();

gotoxy(33,3);

cout<<"CALCULATOR";

gotoxy(3,5);

cout<<" Choose Type:-";

gotoxy(15,7);

cout<<"1.Basic";

gotoxy(45,7);

cout<<"2.Scientific";

gotoxy(15,9);

cout<<"3.Trigonometric";

gotoxy(45,9);

cout<<"4.BACK <--";

gotoxy(3,15);

cout<<"CHOICE: ";

cin>>choice;

switch(choice)

{

case 1:design1();

simple();

break;

case 2: design1();

scientific();

break;

case 3:design1();

trigno();

break;

case 4: return;

defualt: gotoxy(3,10);

cout<<"Invalid choice.Try again";

getch();

clrscr();

goto next;

}

clrscr();

goto next;

}

//Game-Snake And Ladder

void draw\_line(int n,char ch);

void board();

void gamescore(char name1[],char name2[],int p1, int p2);

void play\_dice(int &score);

void Game()

{

int player1=0,player2=0,lastposition;

char player1name[80],player2name[80];

clrscr();

randomize();

draw\_line(79,'=');

gotoxy(33,2);

cout<<"SNAKE LADDER GAME\n";

draw\_line(79,'=');

cout<<"\n\n\nEnter Name of Player 1 :";

gets(player1name);

cout<<"\n\n\nEnter Name of Player 2 :";

gets(player2name);

while(player1<100 && player2<100)

{

board();

gamescore(player1name,player2name,player1,player2);

cout<<"\n\n--->" <<player1name<<" Now your Turn >> Press any key to play ";

getch();

lastposition=player1;

play\_dice(player1);

if(player1<lastposition)

cout<<"\n\a OOPS !! SNAKE found !! You are at postion "<<player1<<"\n";

else if(player1>lastposition+6)

cout<<"\n\a GREAT !! you got a LADDER !! You are at position "<<player1;

cout<<"\n\n--->"<<player2name<<" Now your Turn >> Press any key to play ";

getch();

lastposition=player2;

play\_dice(player2);

if(player2<lastposition)

cout<<"\n\a OOPS !! SNAKE found !! You are at position "<<player2<<"\n";

else if(player2>lastposition+6)

cout<<"\n\a GREAT !! you got a LADDER !! You are at position "<<player2<<"\n";

getch();

}

clrscr();

gotoxy(1,2);

draw\_line(79,'+');

cout<<"\n\t\t RESULT\n\n";

gotoxy(1,4);

draw\_line(79,'+');

cout<<endl;

gamescore(player1name,player2name,player1,player2);

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

if(player1>=player2)

cout<<player1name<<" !! You are the WINNER of the game\n\n";

else

cout<<player2name<<" !! You are the WINNER of the game\n\n";

draw\_line(79,'+');

getch();

}

void draw\_line(int n,char ch)

{

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

cout<<ch;

}

void board()

{

clrscr();

gotoxy(1,2);

draw\_line(79,'-');

gotoxy(1,3);

cout<<"\tSNAKE AT POSITION |\n";

draw\_line(79,'-');

cout<<"\n";

cout<<"\tFrom 98 to 28 |";

cout<<"\n\tFrom 95 to 24 |";

cout<<"\n\tFrom 92 to 51 |";

cout<<"\n\tFrom 83 to 19 |";

cout<<"\n\tFrom 73 to 1 |";

cout<<"\n\tFrom 69 to 33 |";

cout<<"\n\tFrom 64 to 36 |";

cout<<"\n\tFrom 59 to 17 |";

cout<<"\n\tFrom 55 to 7 |";

cout<<"\n\tFrom 52 to 11 |";

cout<<"\n\tFrom 48 to 9 |";

cout<<"\n\tFrom 46 to 5 |";

cout<<"\n\tFrom 44 to 22 |\n\n";

gotoxy(50,3);

cout<<"LADDER AT POSITION\n";

gotoxy(50,5);

cout<<"From 8 to 26";

gotoxy(50,6);

cout<<"From 21 to 82";

gotoxy(50,7);

cout<<"From 43 to 77";

gotoxy(50,8);

cout<<"From 50 to 91";

gotoxy(50,9);

cout<<"From 62 to 96";

gotoxy(50,10);

cout<<"From 66 to 87";

gotoxy(50,11);

cout<<"From 80 to 100";

cout<<endl;

}

void gamescore(char name1[],char name2[],int p1, int p2)

{

cout<<"\n";

gotoxy(1,18);

draw\_line(79,'~');

cout<<"\n\t\t GAME STATUS\n";

draw\_line(79,'~');

cout<<"\n\t--->"<<name1<<" is at position = "<<p1<<endl;

cout<<"\t--->"<<name2<<" is at position = "<<p2<<endl;

draw\_line(79,'\_');

cout<<endl;

}

void play\_dice(int &score)

{

int dice;

dice=random(6)+1;

cout<<"\nYou got "<<dice<<" Point(s) !\n ";

score=score+dice;

cout<<"Now you are at position "<<score;

switch(score)

{

case 98 :score=28;break;

case 95 :score=24;break;

case 92 :score=51;break;

case 83 :score=19;break;

case 73 :score=1;break;

case 69 :score=33;break;

case 64 :score=36;break;

case 59 :score=17;break;

case 55 :score=7;break;

case 52 :score=11;break;

case 48 :score=9;break;

case 46 :score=5;break;

case 44 :score=22;break;

case 8 :score=26;break;

case 21 :score=82;break;

case 43 :score=77;break;

case 50 :score=91;break;

case 54 :score=93;break;

case 62 :score=96;break;

case 66 :score=87;break;

case 80 :score=100;break;

}

}

//credits

void credits()

{

clrscr();

design1();

{

for(int g=12;g<=68;g++)

{

gotoxy(g,7);

slower("H");

gotoxy(g,19);

slower("H");

}

}

{for(int v=7;v<=19;v++)

{

gotoxy(12,v);

slower("H");

gotoxy(68,v);

slower("H");

}

}

gotoxy(29,9);

cout<<"THANK YOU FOR CHOOSING";

gotoxy(36,13);

cout<<"J.A.V.A inc.";

gotoxy(2,2);

slower("AVINASH SHANKAR BHARADWAJ");

gotoxy(62,2);

slower("VIGNESH RAJ MENON");

gotoxy(2,24);

slower("JOAN IYPE ZAC");

gotoxy(69,24);

slower("AMAL MOHAN");

getch();

exit(0);

}

void menu()

{ int k;

label : clrscr();

design1();

gotoxy(2,2);

slower("|--------------------{ M A I N M E N U }--------------------|");

{

gotoxy(26,8);

cout<<"CHOOSE AN OPTION FROM 1-7 MATE!";

gotoxy(10,9);

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

gotoxy(10,10);

cout<<"1. Address book";

gotoxy(10,11);

cout<<"^^^^^^^^^^^^^^^^^";

gotoxy(35,9);

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

gotoxy(35,10);

cout<<"2. Convertor";

gotoxy(35,11);

cout<<"^^^^^^^^^^^^^^";

gotoxy(57,9);

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

gotoxy(57,10);

cout<<"3. Applications";

gotoxy(57,11);

cout<<"^^^^^^^^^^^^^^^^^";

gotoxy(10,14);

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

gotoxy(10,15);

cout<<"4. Horoscope";

gotoxy(10,16);

cout<<"^^^^^^^^^^^^^^";

gotoxy(35,14);

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

gotoxy(35,15);

cout<<"5. Calculator";

gotoxy(35,16);

cout<<"^^^^^^^^^^^^^^^";

gotoxy(55,14);

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

gotoxy(55,15);

cout<<"6. Snake & Ladder";

gotoxy(55,16);

cout<<"^^^^^^^^^^^^^^^^^^^";

gotoxy(37,18);

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_";

gotoxy(37,19);

cout<<"7. E X I T";

gotoxy(37,20);

cout<<"^^^^^^^^^^^^";

gotoxy(3,22);

cout<<"OPTION : " ;

cin>>k;

switch(k)

{

case 1 :clrscr();

gotoxy(32,13);

slower("A D D R E S S B O O K");

delay2();

clrscr();

address();

break;

case 2 : clrscr();

gotoxy(32,13);

slower("C O N V E R T O R");

delay2();

clrscr();

convertionOPT();

break;

case 3 : clrscr();

gotoxy(32,13);

slower("A P P L I C A T I O N S");

delay2();

clrscr();

apps();

break;

case 4 : clrscr();

gotoxy(34,13);

slower("H O R O S C O P E");

delay2();

clrscr();

horrorscope();

break;

case 5 : clrscr();

gotoxy(34,13);

slower("C A L C U L A T O R");

delay2();

clrscr();

calculator();

break;

case 6 : clrscr();

gotoxy(29,13);

slower("S N A K E");

gotoxy(39,14);

slower("&");

gotoxy(41,15);

slower("L A D D E R");

delay2();

clrscr();

Game();

break;

case 7 : credits();

default :

clrscr();

gotoxy(30,13);

cout<<"INVALID CHOICE!";

gotoxy(27,14);

cout<<" ENTER A CHOICE FROM 1-7. ";

gotoxy(55,19);

cout<<"PRESS ANY KEY TO CONTINUE ";

getch();

goto label;

}//end of switch

clrscr();

design1();

gotoxy(3,3);

cout<<"RETURNING TO DIGITAL DIARY";

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

{

delay1();

cout<<".";

}

goto label;

}

}

void DESIGN()

{

entry();

clrscr();

design1();

login();

welcome();

menu();

}

void main()

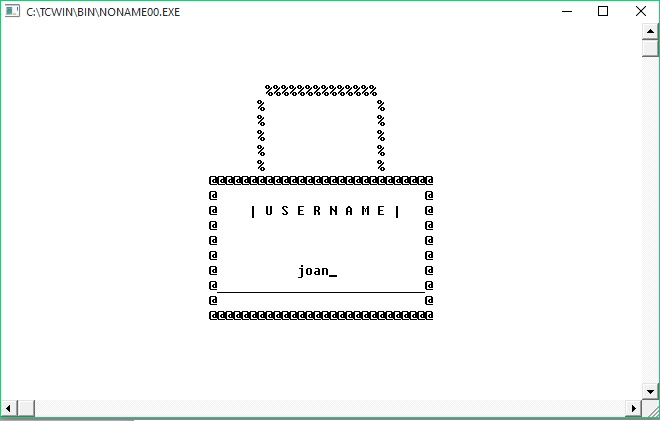
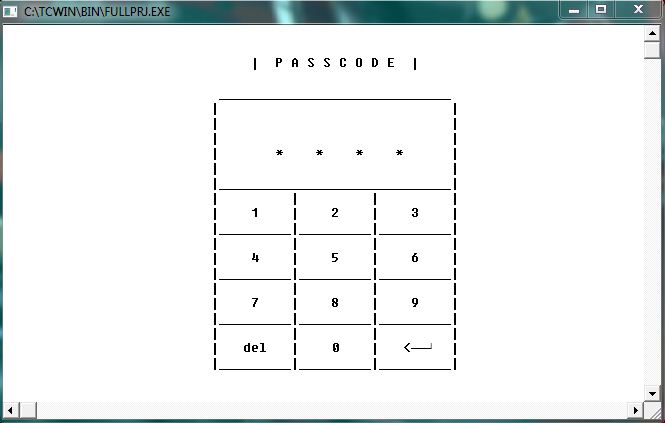
{

DESIGN();

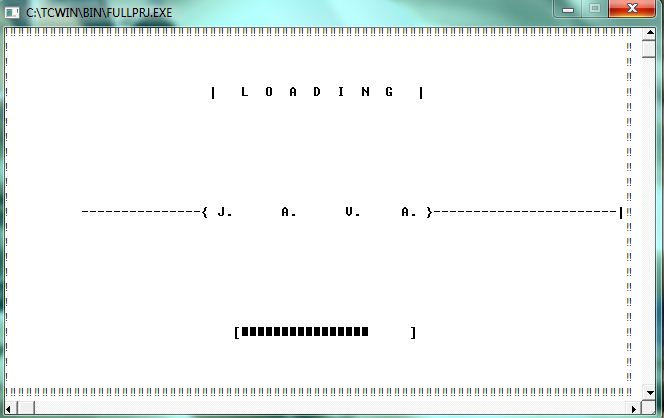
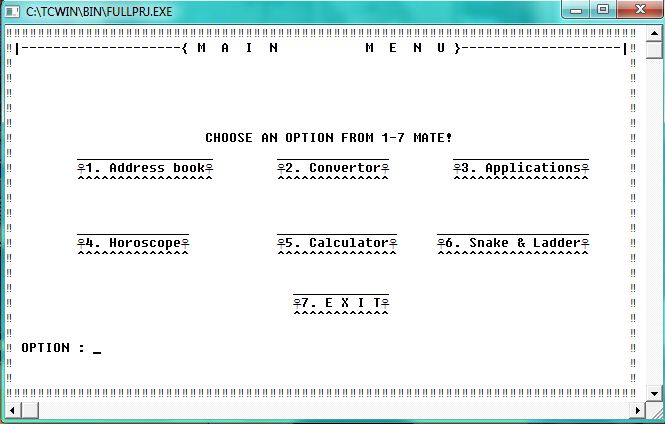
}//END OF PROGRAMME

-------------------------------------X-------------------------------------

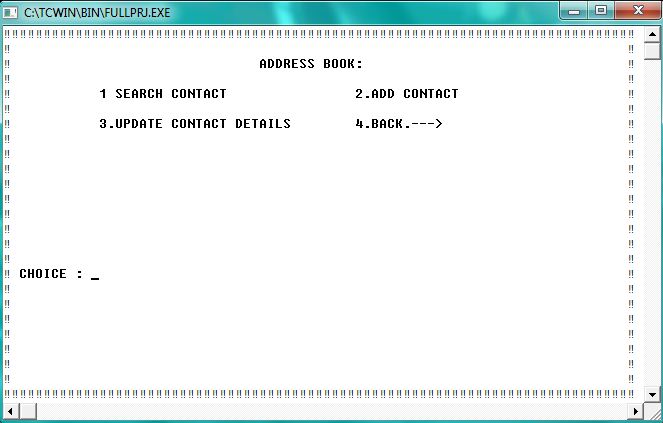
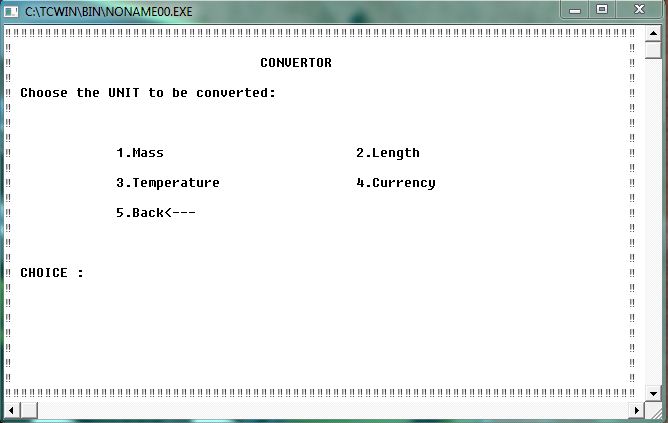
SCREENSHOTS

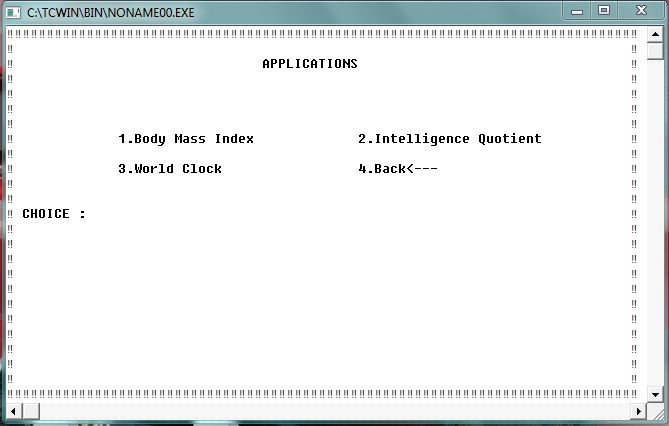
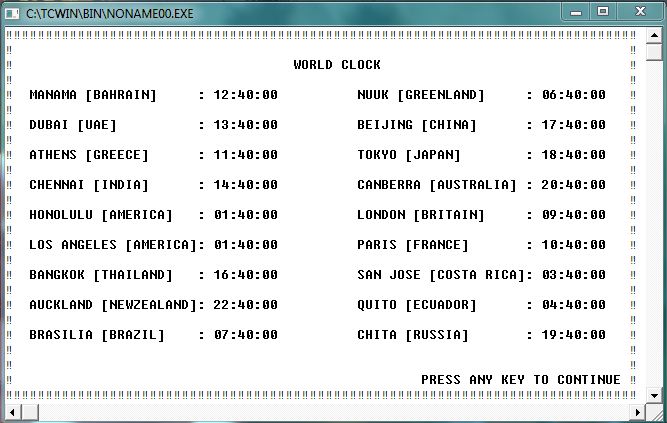
LOGIN PASSCODE

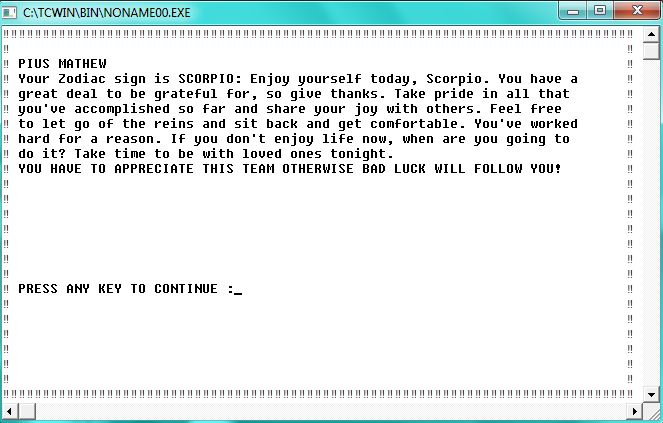
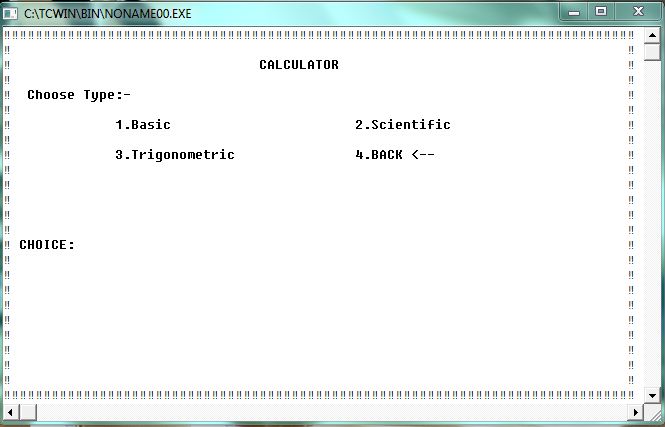
LOADING MAIN MENU

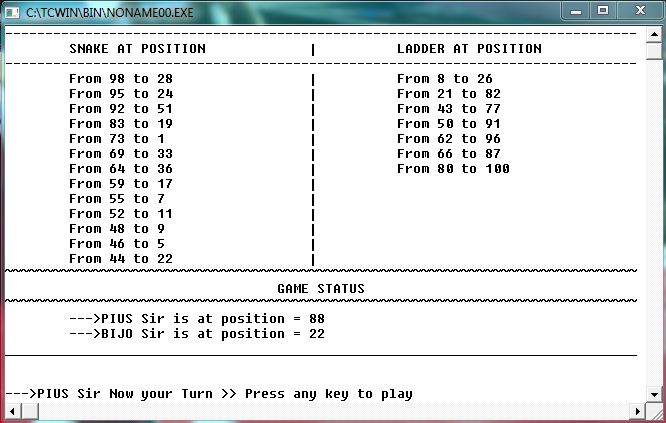
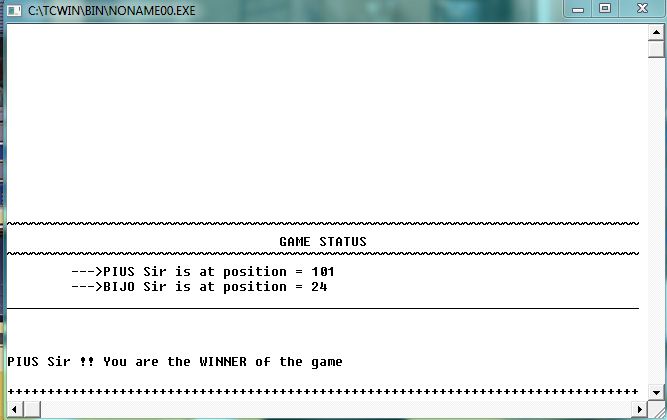
ADDRESS BOOK CONVERTOR

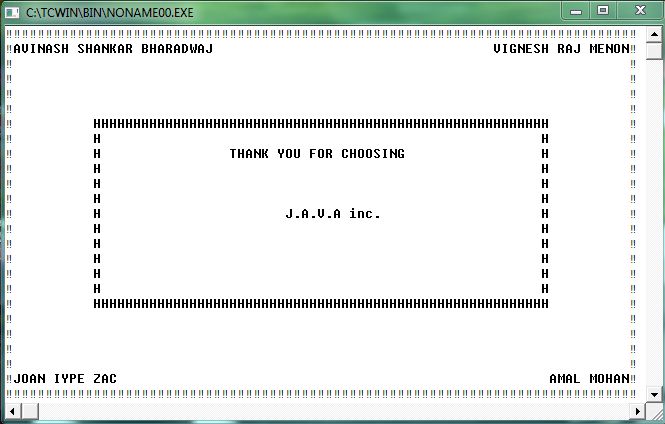
APPLICATIONS APPLICATIONS --- WORLD CLOCK

HOROSCOPE CALCULATOR

GAME --- SNAKE & LADDER SNAKE & LADDER



EXIT

THANK

YOU