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Facebook : Sailesh Sahu Introducing McLab OS ver 2.0.... The Fastest developing OS yet !!! - Designed by Sailesh Sahu...

Difference.... A Revolutionary Graphics
User Interface (GUI), Welcome,
Amazingly Simple Interface, Fastest
Browser, Safest OS yet, Powerful
Gaming Support

CERTIFICATE

This is to certify that I, Sailesh Sahu, bearing Roll No. 6607208 a bonafide student of Class XII Science A, Delhi Public School, Damanjodi, have completed the project on "Alclab Operating System" in his practical, in pursuance of the annual examination of Class XII, 2012-2013 and have completed the project satisfactorily.

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My heartfelt gratitude also goes to my lovely parents and my friends who have contributed directly or indirectly towards the successful completion of the project.

Sailesh Sahu

Class: XII

Science A

Roll No: 6607208

```
/**********************************
#include<iostream.h>
#include<conio.h>
#include<stdio.h>
#include<graphics.h>
#include<time.h>
#include<string.h>
#include<stdlib.h>
#include<math.h>
#include<process.h>
#include<dos.h>
#include<ctype.h>
#include<fstream.h>
#include <stdarg.h>
/*********************
**************************** DECLARATION OF VARIABLES **************************
int midx, midy;
char str1[]={"Sailesh Sahu"};
#ifdef __TINY__
#error BGIDEMO will not run in the tiny model.
#endif
#define NFONTS 11
char *Fonts[NFONTS] = { "EuropeanFont", "BoldFont"};
char *LineStyles[] = { "SolidLn", "DottedLn", "CenterLn", "DashedLn", "UserBitLn" };
                                                "LtSlashFill", "SlashFill", "BkSlashFill",
char *FillStyles[] = { "EmptyFill", "SolidFill",
                                      "LineFill",
LtBkSlashFill", "HatchFill", "XHatchFill", "InterleaveFill", "WideDotFill", "CloseDotFill" };
struct PTS
{
int y;
      /* Structure to hold vertex points
};
   GraphDriver;
                          /* The Graphics device driver
                                                           */
int
                          /* The Graphics mode value
                                                           */
int GraphMode;
                          /* Aspect ratio of a pixel on the screen*/
double AspectRatio;
                          /* The maximum resolution of the screen */
   MaxX, MaxY;
int
                   /* The maximum # of colors available
                                                     */
int
    MaxColors;
   ErrorCode;
                   /* Reports any graphics errors
                                                     */
struct palettetype palette;
                                 /* Used to read palette info
```

```
/************************************
void Initialize(void);
void intro(void);
void Textwelcome(void);
void TextWELKOM(void);
void Textvelkommen(void);
void TextBIENVENUE(void);
void TextWILLKOMMEN(void);
void TextBENVENUTO(void);
void TextVALKOMMEN(void);
void TextBIENVENIDO(void);
void TextTERVETULOA(void);
void TextBEMVINDO(void);
void MainWindow(char *header);
void changetextstyle(int font, int direction, int charsize);
void typeit (int x,int y,int spacing,char string[])
char temp[2];
for (int i=0;i<strlen(string);i++)
                delay(100);
                temp[0]=string[i];
                temp[1]='\0';
                outtextxy(x+(i+1)*spacing,y,temp);
          }//end for
}
void front()
     int x,y,h;
     for(x=0;x<=100;x++)
                 settextjustify(CENTER_TEXT,CENTER_TEXT);
                 setcolor(1);
                 settextstyle(1,0,4);
                 setusercharsize(x,6,x,3);
                 setcolor(14);
                 moveto(310,135);
                 outtext("..");
                 setcolor(6);
                 moveto(310,130);
                 outtext("I I");
                 if(x<50)
```

```
delay(30);
                          else
                          delay(20);
}
for(y=0;y<=100;y++)
 setcolor(0);
 settextstyle(1,0,4);
 setusercharsize(y,6,y,3);
 moveto(310,135);
 outtext("..");
 moveto(310,130);
 outtext("I I");
if(y > 20)
{
 settextstyle(7,0,3);
 setusercharsize(y-20,35,y-20,30);
 setcolor(9);
 outtext("McLab OS");
 setcolor(2);
 outtext("
 delay(15);
 if(y<100)
 {
 settextstyle(7,0,3);
 setusercharsize(y-20,35,y-20,30);
 setcolor(0);
 outtext("McLab OS");
 }
}
}
//delay(1000);
settextstyle(3,0,2);
delay(50);
outtextxy(midx-200,midy,"Group Members:-");
//x=10,y=10;
setcolor(6);
settextstyle(4,0,4);
typeit(midx-200,midy+50,15,str1);
typeit(midx-200,midy+80,15,str2);
typeit(midx-200,midy+110,15,str3);
typeit(midx-200,midy+140,15,str4);
typeit(midx-200,midy+170,15,str5);
getch();
//closegraph();
```

```
char board [3] [3]; // Remeber Indexing Starts at zero
void drawcircle (int position) // Draws a circle on basis of Input use mathematics reduce complexity
 int centrex;
 int centrey;
 centrex = 245 + (50*(position%3)) + 25;
 centrey = 165 + (50*(position/3)) + 25;
 fillellipse (centrex, centrey, 10,10);
void drawcross (int position)
{
 int centrex;
 int centrey;
 centrex = 245 + (50*(position%3)) + 25;
 centrey = 165 + (50*(position/3)) + 25;
 line (centrex-5,centrey+5,centrex+5,centrey-5);
 line (centrex+5,centrey+5,centrex-5,centrey-5);
}
void mapboard ()
int gdriver = DETECT, gmode;
int i,j;
closegraph ();
initgraph (&gdriver, &gmode, "c:\\tc\\bgi");
// Draw 4 Lines to Form Board
line (295,165,295,315);
line (345,165,345,315);
line (245,215,395,215);
line (245,265,395,265);
for (i = 0; i \leftarrow 2; i++)
  for (j = 0; j \leftarrow 2; j++)
   if (board [i] [j] == 'X') drawcross (3*i + j);
   if (board [i] [j] == 'O') drawcircle (3*i + j);
outtextxy (40,472,"Remove This Line by Learn Coding It yourself at www.cencyclopedia.com");
void initiateboard ()
int i,j;
for (i = 0; i < 3; i++)
```

```
{
     for (j = 0; j < 3; j++)
                board [i] [j] = '*';
                putchar (board [i] [j]);
mapboard ();
void input ()
  int x,y;
  printf ("\nEnter X Coordinate - ");
  scanf ("%d",&x);
  printf ("\nEnter Y Coordinate - ");
  scanf ("%d", &y);
  if (board [x-1] [y-1] == '*')
    board [x-1][y-1] = 'X';
  else
     mapboard ();
     printf ("\nWrong Coordinates");
     input ();
  }
void computer ()
  int i,j;
  for (i = 0; i < 3; i++)
  for (j = 0; j < 3; j++)
          if (board [i] [j] == '*')
                  board [i] [j] = 'O';
                  return;
           }
       }
void check ()
{
     int i;
     char key = '*';
     // Check Rows
     for (i=0; i<3;i++)
      if (board [i][0] == board [i][1] \&\& board [i][0] == board [i][2] \&\& board [i][0]! = '*') \\  key = board [i][0]; \\  if (board [i][0] == board [i][0]! = '*') \\  key = board [i][0]; \\  if (board [i][0] == board [i][0]! = '*') \\  key = board [i][0]; \\  if (board [i][0] == board [i][0]! = '*') \\  key = board [i][0]; \\  if (board [i][0] == board [i][0]! = '*') \\  key = board [i][0] == board [i][0] 
     // check Columns
```

```
for (i=0; i<3;i++)
 // Check Diagonals
 if (board [0][0] == board [1] [1] && board [1][1] == board [2] [2] && board [1] [1] != '*') key = board [1] [1];
 if (board [0][2] == board [1] [1] && board [1][1] == board [2] [0] && board [1] [1] != '*') key = board [1] [1];
 //Declare Winner if any
 if (key == 'X')
 printf ("You Win");
 getch ();
 exit (0);
 if (key == 'O')
 printf ("Computer Win");
 getch ();
 exit (0);
}
void play () // Ladies and Gentleman I give you our game engine.
{
 int i;
for (i = 0; i < 5; i++)
 input ();
 computer ();
 mapboard ();
 check ();
printf ("\n\nGAME DRAW");
                            class Snake
int p1,p2,v1,v2,v3,e1,e2,prev,now,n,colr,dsp,cnt,dly,m;
int stp,egGen;
int xr,yr;
void caught();
public:
long scr;
int strtX,strtY,endX,endY;
int pos[100][2];
void show();
void init();
void egg();
```

```
void transpose();
void gnrtCond();
void gnrtUnCond();
void check();
void checkEgg();
void move();
void chngDir();
void sndEt();
void sndCgt();
int test();
void score();
Snake();
Snake(Snake*);
~Snake();
};
Snake::Snake()
{}
Snake::~Snake()
{}
void Snake::checkEgg()
{
if((e1 == p1) && (e2 == p2))
{sndEt();}
 egg();
 dly--;
 score();
 n++;
 }
void Snake::sndEt()
{nosound();
sound(2500);
delay(2);
nosound();
}
void Snake::sndCgt()
{nosound();
for(int x=1000;x>0;x--)
\{sound(x);
 delay(1);
nosound();
void Snake::score()
{ char *p;
 ltoa(scr,p,10);
 settextstyle(8,0,1);
 setcolor(0);
```

```
outtextxy(585,40,p);
 if(egGen != 1){
 scr = scr + dly / 10;
 ltoa(scr,p,10);
 setcolor(10);
 outtextxy(585,40,p);
void Snake::gnrtCond()
\{if(n < 367)\}
{if(now == 8 && (prev != 8 && prev != 2))
 \{pos[0][0] = p1;
  pos[0][1] = p2 - dsp;
  prev = now;
 if(now == 4 && (prev != 4 && prev != 1))
 \{pos[0][0] = p1 + dsp;
 pos[0][1] = p2;
  prev = now;
 if(now == 2 && (prev != 8 && prev != 2))
 \{pos[0][0] = p1;
  pos[0][1] = p2 + dsp;
  prev = now;
 if(now == 1 && (prev != 1 && prev != 4))
 \{pos[0][0] = p1 - dsp;
 pos[0][1] = p2;
  prev = now;
  }
}
}
void Snake::gnrtUnCond()
 if( prev == 8 )
 \{pos[0][0] = p1;
 pos[0][1] = p2 - dsp;
  }
if( prev == 4 )
 \{pos[0][0] = p1 + dsp;
  pos[0][1] = p2;
if( prev == 2 )
 \{pos[0][0] = p1;
 pos[0][1] = p2 + dsp;
if( prev == 1)
 \{pos[0][0] = p1 - dsp;
```

```
pos[0][1] = p2;
p1 = pos[0][0];
p2 = pos[0][1];
void Snake::check()
{
if(p1 > endX)
 {p1 = strtX;}
else if(p1 < strtX)
 {p1 = endX;}
if(p2 > endY)
 {p2 = strtY;}
else if(p2 < strtY)
 {p2 = endY;}
pos[0][0] = p1;
pos[0][1] = p2;
for(int i = 1;i < n;i++)
 \{ if(p1 == pos[i][0] \&\& p2 == pos[i][1] \}
 {caught();
 break;
 }
}
void Snake::show()
 int x = getcolor();
 if(egGen != 1)
 setcolor(getbkcolor());
 setfillstyle(1,getbkcolor());
 fillellipse(v1,v2,yr,yr);
 }
 else
  egGen = 0;
 if(egGen == 2)
  egGen--;
 setcolor(colr);
 setfillstyle(1,9);
 if(now == 8 || now == 2)
  fillellipse(pos[0][0],pos[0][1],xr,yr);
 else if(now == 4 || now == 1)
  fillellipse(pos[0][0],pos[0][1],yr,xr);
 setcolor(x);
void Snake::transpose()
{ int i,j,x,y;
  p1 = pos[0][0];
```

```
p2 = pos[0][1];
  if(!egGen){
  v1 = pos[n-1][0];
  v2 = pos[n-1][1];
  }
  else
  egGen = 0;
  for(i = n-1;i >= 1;i--)
  \{pos[i][0] = pos[i-1][0];
  pos[i][1] = pos[i-1][1];
 }
}
void Snake::move()
{ int st = 0;
 do{
  if(!kbhit())
  {checkEgg();
  if(!st)
   show();
  else
   st = 0;
  delay(dly/4);
  transpose();
  delay(dly/4);
  gnrtUnCond();
  delay(dly/4);
  check();
  delay(dly/4);
  else if(stp){
  chngDir();
  gnrtCond();
  check();
  show();
  st = 1;
 }while(stp);
}
void Snake::init()
{time_t tm;
srand(time(&tm));
dsp = 20;
n = 5;
prev = 4;
for(int i = 4; i >= 0; i--)
[pos[i][0] = 201 + (n - i - 1) * dsp;
 pos[i][1] = 301;
```

```
strtX = 21;
 strtY = 21;
 endX = 481;
 endY = 361;
 colr = 14;
 now = prev;
 dsp = 20;
 stp = 111;
 cnt = -1;
 scr = 0;
 dly = 150;
 xr = 3;
 yr = 9;
 egg();
 egGen = 1;
 score();
 int x = getcolor();
 setlinestyle(0,1,3);
 setcolor(15);
 rectangle(strtX-15,strtY-15,endX+15,endY+15);
 rectangle(endX+25,strtY-15,getmaxx()-15,endY+15);
 rectangle(strtX-15,endY+25,getmaxx()-15,getmaxy()-5);
 line(endX+25,strtY+75,getmaxx()-15,strtY+75);
 line(endX+25,strtY+200,getmaxx()-15,strtY+200);
 line(endX+25,strtY+275,getmaxx()-15,strtY+275);
 setlinestyle(0,1,1);
 settextstyle(8,0,1);
 setcolor(11);
 outtextxy(514,40,"SCORE");
 setcolor(14);
 settextstyle(11,0,5);
 outtextxy(524,110," CONTROLS");
 outtextxy(522,135,"p = PAUSE");
 outtextxy(522,155,"q = RESUME");
 outtextxy(522,175,"e = EXIT");
 outtextxy(513,195,"ARROWS");
 outtextxy(512,205," -MOVEMENT");
 setcolor(14);
 settextstyle(4,0,9);
 outtextxy(getmaxx()-500,getmaxy()-110,"SNAKE");
 settextstyle(8,0,1);
 setcolor(x);
void Snake::caught()
{
stp = 0;
sndCgt();
for(int i=0;i<=7;i++)
```

```
{if(i%2)
 {setcolor(10);
 outtextxy(512,250,"GAME OVER");
 delay(900);
 }
 else
 {setcolor(0);
 outtextxy(512,250,"GAME OVER");
 delay(500);
 }
 }
sleep(1);
}
void Snake::chngDir()
{int clr;
fillsettingstype *p;
char x = getch();
if(x == 72)
 now = 8;
else if(x == 77)
 now = 4;
else if(x == 80)
 now = 2;
else if(x == 75)
 now = 1;
else if(x == 'e')
 caught();
else if(x == 'p')
//int y = getcolor();
 int twnkl = 1;
 settextstyle(11,0,9);
 while(1)
 {if(kbhit())
 {int c = getch();
  if(c == 'g')
  {clr = getcolor();
   setcolor(0);
   rectangle(endX+40,endY-10,getmaxx()-35,getmaxy()-160);
   outtextxy(endX+60,endY-29,"PAUSE");
   break;
   }
  }
 else
 {if(twnkl%2)
  {clr = getcolor();
   setcolor(10);
   rectangle(endX+40,endY-10,getmaxx()-35,getmaxy()-160);
```

```
outtextxy(endX+60,endY-29,"PAUSE");
   setcolor(clr);
    delay(1000);
   }
  else
   clr = getcolor();
   setcolor(0);
   rectangle(endX+40,endY-10,getmaxx()-35,getmaxy()-160);
   outtextxy(endX+60,endY-29,"PAUSE");
   delay(1000);
  }
  twnkl++;
  settextstyle(8,0,1);
}
Snake::Snake(Snake *p)
*p=NULL;
void Snake::egg()
{ do
 \{e1 = (rand() \% 100) * dsp + strtX;
  e2 = (rand() \% 100) * dsp + strtY;
  }while(test());
 int x = getcolor();
 setcolor(7);
 setfillstyle(1,random(15)+1);
 fillellipse(e1,e2,xr+2,xr+2);
 setcolor(x);
 egGen = 2;
}
int Snake::test()
{ for(int i=0;i<n;i++)
 {if(e1 == pos[i][0] && e2 == pos[i][1])
  break;
  if(v1 == e1 && v2 == e2)
  break;
  if((e1 \ge endX+1) || (e2 \ge endY+1))
  break;
 }
if(i != n)
 return 1;
else
 return 0;
}
```

```
struct stud
{
   char name[30];
   int roll;
   long adno;
   char sec[5];
   char clas[3];
   float phy;
   float che;
   float maths;
   float comp;
   float bio;
};
void main()
{
clrscr();
intro();
Initialize();
midx=getmaxx()/2;midy=getmaxy()/2;
front();
/**********************************
textmode(C80);
clrscr();
cout<<'\n'<<'\n'<<'\n'<<'\n'<<'\n'<<'\n'<;
cout<<"\n\t\t\t
       Please wait .";
for(long ai=0; ai<9999999; ++ai);
clrscr();
cout<<'\n'<<'\n'<<'\n'<<'\n'<<'\n'<<'\n'<<'\n'<<'\n';
cout<<"\n\t\t\t
       Please wait ..";
for(long j=0; j<9999999; ++j);
clrscr();
cout<<'\n'<<'\n'<<'\n'<<'\n'<<'\n'<<'\n'<;
cout<<"\n\t\t\t
       Please wait . . . ";
```

```
for(long k=0; k<9999999; ++k);
clrscr();
cout<<'\n'<<'\n'<<'\n'<<'\n'<<'\n'<<'\n'<<'\n'<;
cout<<"\n\t\t\t Starting McLAB OS \n";
cout<<'\n'<<'\n'<<'\n';
cout<<'\t'<<'\t';
cout<<"\t .";
for(long g=0; g<999999; ++g);
cout<<" .";
for(long m=0; m<999999; ++m);
cout << " .";
for(long n=0; n<9999999; ++n);
float ab;
textcolor(LIGHTRED);
textbackground(LIGHTBLUE);
clrscr();
gotoxy(5,5);
printf("\n\t\t
            Processing System files.....");
for(ab=1;ab<=80;ab++)
     for(long z=0; z<999998; ++z);
     gotoxy(5,23);
     printf(" Completed... %f %",ab*1.25);
     gotoxy(ab,9);
     textbackground(WHITE);
     textcolor(WHITE);
     cprintf("\n\n ",65);
printf("\n Progress is finished Press Enter.....");
textbackground(BLACK);
clrscr();
cout<<"_____@@@@@@\n";
cout<<"_____@____@____@@@@@@\n";
        ____@_____@_____@\n";
cout<<"_
cout<<"_____@_____@\n";
      cout<<"
                           @\n";
       cout<<"
                              @\n";
cout<<"___@@@@@@@____@@@@@@@@___
                              @\n";
cout<<"__@______@@@@@@@@______@\n";
cout<<"_@_____@@@@@@@@@@@_____@\n";
cout<<"_@_____@@@@@@@@@____@\n";
cout<<"_@___
         _____@@@@@@@_____@
                                         USER NAME : McLAB\n";
cout<<"__@____@@@@@@____@
                                         Enter password: ";
int \times[100],\times1[100],d,q=0,f=0,l;
```

```
for(d=0;d<=100;d++)
                  I=getch();
                  if(((|>=48)&&(|<=126))||(|==8)||(|==13))x[d]=|;
                  if(x[d]==13)break;
          {
                  cout<<"*";
                  f++:
          }
cout<<'\n';
cout<<"____@@@@@______@\n";
      _____@@___
                            ____@\n";
cout<<" @ @@
                             @\n";
     _____@___@@__@@@@@\n";
       _____@@\n";
cout<<"
cout<<"
       @@@@_@\n";
       _____@\n";
cout<<"
       @\n";
cout<<"
cout<<"
                   @ @@@\n";
       _____@@@@__@__@\n";
          ____@____@@\n";
            ____@@@____@__@@\n";
cout<<"_
cout<<"
              @\n";
      @\n";
cout<<"
cout<<"_
                  @";
for(long abcde=0; abcde<9999999; ++abcde);
clrscr();
clrscr();
cout<<'\n';
cout<<"\t\t _
cout<<"\t\t _____$$$$$$$$$$$$
cout<<"\t\t _____
        _$$$$___
            __$$$$$$$$
       _$$$___$$$$$$_$$_$$_
cout<<"\t\t ___
      ____$__$$$$$$$$$__$__$$__
cout<<"\t\t
cout<<"\t\t ___$$__$$$$$$$$__$__$__$
cout<<"\t\t __$$_$$$$$$$$$__$__$$_
                         \n";
cout<<"\t\t _
     _$$$$$$$$$$$
cout<<"\t\t $$$$$$$.....$$_$$$$$$$$$\n";
cout<<"\t\t _____
        _$$$$$__$$$___$$__$_$$$$$$$$\n";
cout<<"\t\t ____
      ___$$$$$$$$_$$$$$$$$$$$$$$$$$$$$\n";
cout<<"\t\t _____$$$$$$$$$$$$$$$$$$$$$$$$$$$$
cout<<"\t\t _____$$$$$$$$$$$$$$$
cout<<"\t\t _____$$$$$$$$$$$$
cout<<"\t\t ___
       ____$$$$$$$$$$
```

```
cout<<'\n';
cout<<"\t\t
                    MCLAB
for(long abcd=0; abcd<9999999; ++abcd);
clrscr();
cout<<'\n'<<'\n'<<'\n'<<'\n'<<'\n'<<'\n';
                           11
cout<<"\t\t
           /| //||
                                           // \n";
cout<<"\t\t
         //| //||
                          //
                                          // ___ \n";
cout<<"\t\t //| // || // )) //
                               // )) // ))\n";
cout<<"\t\t // |// || // //
                                // // // // \n";
              | | ((____ / /____/ / ((___( ( ___/ / \n";
cout<<"\t\t// |//
for(long abcd1=0; abcd1<9999999; ++abcd1);
clrscr();
Initialize();
                  /* Set system into Graphics mode */
Textwelcome();
for(long abc1=0; abc1<9999999; ++abc1);
clrscr();
TextWELKOM();
for(long abc2=0; abc2<9999999; ++abc2);
clrscr();
Textvelkommen();
for(long abc3=0; abc3<9999999; ++abc3);
clrscr();
TextWELKOM();
for(long abc4=0; abc4<9999999; ++abc4);
clrscr();
TextBIENVENUE();
for(long abc5=0; abc5<9999999; ++abc5);
clrscr();
TextWILLKOMMEN();
for(long abc6=0; abc6<9999999; ++abc6);
clrscr();
TextBENVENUTO();
for(long abc7=0; abc7<9999999; ++abc7);
clrscr();
TextVALKOMMEN();
for(long abc8=0; abc8<9999999; ++abc8);
clrscr();
TextBIENVENIDO();
for(long abc9=0; abc9<9999999; ++abc9);
clrscr();
TextTERVETULOA();
for(long abc10=0;abc10<9999999; ++abc10);
clrscr();
```

```
TextBEMVINDO();
for(long abc11=0;abc11<9999999; ++abc11);
clrscr();
desktop:
 Initialize();
 int left, top, right, bottom;
 left = getmaxx() / 10 - 20;
 top = getmaxy() / 5 - 20;
 right = getmaxx() / 10 + 20;
 bottom = getmaxy() / 5 + 20;
 /* draw a rectangle */
 rectangle(left-20,top-40,right-20,bottom-30);
 rectangle(left-20,top+50,right-20,bottom+60);
 rectangle(left-20,top+140,right-20,bottom+150);
 rectangle(left-20,top+230,right-20,bottom+240);
 cout<<'\n'<<'\n'<<'\n'<<'\n'<<'\n'<<"1. Documents";
 cout<<'\n'<<'\n'<<'\n'<<'\n'<<"2. Computer ";
 cout<<'\n'<<'\n'<<'\n'<<'\n'<<"3. Game Center ";
 cout<<'\n'<<'\n'<<'\n'<<'\n'<<'\n'<<"4. Browser ";
 cout<<'\n'<<'\n'<;
 cout<<"-----":
 cout<<"5."<<" | Begin |";
 time_t tim; //create variable of time_t
 time(&tim); //pass variable tim to time function
  cout <<"\t^"<<"\t^"<<"\t^"<<"\t^"<<"\t^"<<"\t^"<<"\t^"<<"\tag{$^{$}$ from time() } 
into a readable format
 cout<<"-----";
 int desktop_choice;
 cout << "Enter Your Choice To Start : ";
 cin>>desktop_choice;
 clrscr();
 textmode(C80);
 if(desktop_choice==1)
 goto abc1;
 else if(desktop_choice==2)
 {
 abc8:
            cout<<"MY COMPUTER
                                                  1. 2. 3. ";
                                              MINI MAXI CLOS";
            cout<<"
            cout<<"\n\n\n\n\n\n\n\n\n\n\n";
            cout<<"Hard disk drives\n\n";
            cout<<"C Drive\t\t"<<"D Drive\t\t"<<"E Drive"<<"\n\nEnter your choice c, d or e\n";
            char ch;
            int a[50];
```

```
cin>>ch;
ch=toupper(ch);
clrscr();
switch (ch)
{
         case 'C':abc7:
                  cout<<"C Drive
                                                                  1. 2. 3. ";
                  cout<<"
                                                               MINI MAXI CLOS";
                  cout<<"\n\n\n\n\n\n\n\n\";
                  cout<<"1. My Documents\n"<<"2. Daily used programs\n";
                  cout<<"\nEnter your choice 1 or 2. press 0 to go back\n";
                  cin>>a[0];
                  clrscr();
                  switch (a[0])
                 {
                  case 1:
                  abc1:
                                                                       1. 2. 3. ";
                  cout<<"My Documents
                                                                  MINI MAXI CLOS";
                  cout<<"
                  cout<<"\n1.code of pallindrom";
                  cout<<"\n2.code for reversing a string";</pre>
                  cout<<"\n3.code for finding an element in a set of numbers";</pre>
                  cout<<"\n4.printing an AP till the nth term";
                  cout<<"\n5.code for finding out the LCM and HCF of two given numbers";
                  cout << "\n\n\n enter 0 to go back";
                  cin>>a[1];
                  clrscr();
                  switch (a[1])
                  case 1: abc2:
                          cout<<"#include<iostream.h>
                                                                 \n";
                                                               \n";
                          cout << "#include < stdio.h>
                          cout << "#include < string.h>
                                                               \n";
                                                            \n";
                          cout<<"void main()
                                                        \n";
                          cout<<"{
                          cout<<" char ch[81];
                                                             \n";
                          cout<<" int i, j, b;
                                                               \n":
                          cout<<" gets(ch);
                                                                \n";
                          cout << " b=strlen(ch);
                                                                  \n";
                          cout<<" for(i=0,j=(b-1);i<(b/2);++i,--j)
                                                                     \n";
                          cout<<" {
                                                             \n";
                                                                        \n";
                          cout<<"
                                            if(ch[i]==ch[j])
                          cout<<"
                                                     continue;
                                                                              \n";
                          cout<<"
                                            else
                                                                     \n";
                                                                    \n";
                          cout<<"
                                            {
                          cout<<"
                                                     cout<<""not a palindrome"";
                                                                                       \n";
                          cout<<"
                                                     break;
                                                                              \n";
                                                                     \n";
                          cout<<"
                                            }
```

```
cout<<" }
                                             \n";
         cout<<" if(i>=b/2)
                                                \n";
                           cout<<""It is a palindrome!!!""; \n";
         cout<<"
                                            \n";
         cout<<"}
         cout<<"\n\nEnter 1 to execute or 0 to go back : ";
         cin>>a[2];
         clrscr();
         switch (a[2])
                  case 0:goto abc1;
                  case 1:char b[81];
                  int i, j, x;
                  cout << "Enter the string \n";
                  gets(b);
                  x=strlen(b);
                  for(i=0,j=(x-1);i<(x/2);++i,--j)
                  if(b[i]==b[j])
                  continue;
                  else
                  {
                  cout<<"not a palindrome";
                  break;
                  }
         }
                   if(i>=x/2)
                  cout<<"It is a palindrome!!!!";
                  cout<<"\n\n press 0 to go back";
                  cin>>a[2];
                  if(a[2]==0)
                  goto abc2;
        }
case 2: abc3:
         cout<<"//code for reversing a string\n";</pre>
                   char a[80], temp; \n";
         cout<<"
                   int i, j, b; \n";
                   cout<<""Enter the string"";\n";
         cout<<"
         cout<<"
                   gets (a); \n";
         cout<<"
                   b=strlen (a);\n";
         cout<<" for(i=0, j=b-1;i<b/2;++i, --j)\n";
         cout<<"
                   {\n";
         cout<<"
                            temp=a[i];\n";
         cout<<"
                    a[i]=a[j];\n";
         cout<<"
                    a[j]=temp;\m";
         cout<<" }\n";
         cout<<" cout<<'\n'<<""reversed string\n""<<a;\n";
         cout<<"\n\nPress 1 to execute or 0 to go back";
         cin>>a[3];
```

```
clrscr();
         switch (a[3])
         {
          case 1:
                  char a[80], temp;
                  int i, j, b;
                  cout << "Enter the string \n";
                  gets (a);
                  b=strlen (a);
                  for(i=0, j=b-1;i<b/2;++i, --j)
                           temp=a[i];
                           a[i]=a[j];
                           a[j]=temp;
                  }
                  cout << "the reversed string is " << a;
                  cout<<"\n\n press 0 to go back\n";
                  cin>>a[4];
                  clrscr();
case 0: goto abc1;
}
case 3:abc4:
cout<<"int a[10], b. i;\n";
cout<<"cout<<\"enter 10 elements\";
                                                           \n";
                                                    \n";
cout<<"for(int i=0;i<=10;++i)
cout<<"{
                                              \n";
                  cout<<\"Enter element \"<<i+1;
cout<<"
                                                                  \n";
                                                       \n" ;
cout<<"
                  cin>>a[i];
                                              \n"
cout<<"}
cout << "cout << \ "thank you \nnow enter the element to be searched \"; \n"; 
                                                \n"
cout<<"cin>>b;
cout<<"for(i=0;i<=10;++i)
                                                   \n"
cout<<"{
                                              \n"
cout<<"
                  if(a[i]==b)
                                                        \n"
cout<<"cout<<\"the element is present\";
                                                      \n"
cout<<"}
                                              \n"
cout<<"if(i>=10)
                                                \n"
cout<<" cout<<\"element is not present\";</pre>
                                                            \n"
cout<<"press 1 to execute or press 0 to go back";
cin>>a[5];
clrscr();
switch (a[5])
case 1:int a[10], b, i;
          cout << "enter 10 elements";
          for(i=0;i<=10;++i)
          {
         cout<<"Enter element "<<i+1<<'\n';
```

```
cin>>a[i];
                           cout<<"thank you\nnow enter the element to be searched";
                           cin>>b;
                           for(i=0;i<=10;++i)
                                    if(a[i]==b)
                                    cout << "the element is present";
                  if(i>=10)
                  cout<<"element is not present\n\n\n";
                  cout<<"press 0 to go back or 1 to go to the code of the program";
                  cin>>a[6];
                  clrscr();
                  switch(a[6])
                           case 1:goto abc4;
                  }break;
         case 0:goto abc1;
}
         case 4:abc5:
                           //code for finding an AP till the nth term
                           cout<<"int a, n, d;
                           cout<<"cout<<\"enter the starting number\n";
                                                                                  "\n";
                           cout<<"cin>>a;
                           cout<<"cout<<\"enter the number of terms\n";</pre>
                                                                                   "\n";
                           cout<<"cin>>n;
                                                                     \n";
                           cout<<"cout<<\"enter the difference\n";
                                                                                "\n";
                           cout << "cin>>d;
                                                                     \n";
                           cout<<"cout<<\"\n\nthe AP so formed is as follows :\n"";\n";
                           cout<<"for(int i=1;i<=n;++i)</pre>
                                                                        \n";
                                                                   \n";
                           cout<<"{
                           cout<<" cout<<a+(i-1)*d<<" ";
                                                                          \n";
                           cout<<"}
                                                                   \n";
                           cout<<"enter 1 to execute or 0 to go back";
                           cin>>a[7];
                           clrscr();
                           switch(a[7])
                                    case 0:goto abc1;
                                    case 1:int b, n, d;
                                    cout << "enter the starting number \n";
                                    cin>>b;
                                    cout << "enter the number of terms \n";
                                    cin>>n;
                                    cout << "enter the difference \n";
                                    cin>>d;
                                    cout<<"\n\nthe AP so formed is as follows:\n";
                                    for(int i=1;i<=n;++i)
```

```
{
                          cout<<b+(i-1)*d<<" ";
                 cout<<"\n\nenter 0 to go back";
                 cin>>a[7];
                 clrscr();
                 switch(a[7])
                           case 0: goto abc5;
                 break;
}
case 5:abc6:
        cout<<"#include<iostream.h>
                                                \n";
        cout<<"void main()
                                            \n";
                                        \n";
        cout<<"{
        cout<<"int a,b,hcf,lcm;</pre>
                                            \n";
        cout<<"cout<< \"Enter 2 numbers \";
                                                    \n";
        cout<<"cin>>a>>b;
        cout<<"if(a<b)
                                          \n";
                                        \n";
        cout<<"{
        cout<<" for( int i = a; i>0; i--)
        cout<<" {
                                        \n";
        cout<<"
                          if(a%i == 0 && b%i == 0)
                                                        \n";
                                               \n";
        cout<<"
                                    hcf = i;
        cout<<"
                                                        \n";
                                                         \n";
        cout<<"
                                    break;
        cout<<"
                          }
                                               \n";
                                        \n";
        cout<<" }
        cout<<" cout<<\"hcf = \"<<hcf<<'\n';
                                                  \n";
        cout<<" }
                                        \n";
        cout<<"
                            else
                                                 \n";
                                               \n";
        cout<<"
                          {
        cout<<"
                                    for( int i = b; i>0; i--) \n";
        cout<<"
                                                      \n";
        cout<<"
                                             if(a\%i == 0 \&\& b\%i == 0)\n";
        cout<<"
                                             {
                                                             \n";
        cout<<"
                                                      hcf = i:
                                                                      \n";
                                                      break;
                                                                       \n";
        cout<<"
        cout<<"
                                             }
                                                             \n";
                                                      \n";
        cout<<"
                                   }
                           cout<<\"hcf = \"<<hcf<<'\n'; \n";
        cout<<"
                                               \n";
        cout<<"
                           }
                                        \n";
        cout<<" }
                                    lcm=(a*b)/hcf;
        cout<<"
                                                            \n";
                                    cout<<\"lcm = \"<<lcm; \n";
        cout<<"
        cout<<"\n\npress 1 to execute or 0 to go back";
        cin>>a[8];
        clrscr();
```

```
switch(a[8])
                                   case 0:goto abc1;
                                   case 1:int c,b,hcf,lcm;
                                   cout<<"enter two numbers";
                                   cin>>c>>b;
                                   if(c<b)
                                   for( int i = c; i>0; i--)
                                            if(c%i == 0 && b%i == 0)
                                                    hcf = i;
                                                     break;
                                    cout<<"hcf = "<<hcf<<'\n';
                                  }
                                    else
                                            for( int i = b; i>0; i--)
                                                    if(c%i == 0 && b%i == 0)
                                                     hcf = i;
                                                    break;
                                                    }
                                            cout<<"hcf = "<<hcf<<'\n';
                          }
                                   lcm=(c*b)/hcf;
                                   cout<<"lcm = "<<lcm;
                                   cout<<"\n\n\npress o to go back";
                                   cin>>a[9];
                                   clrscr();
                                   switch (a[9])
                                   case 0:goto abc6;
                                  }
                         }
                          case 0:goto desktop;
}//end of my documents folder
                                                                               1. 2. 3. ";
                  case 2:cout<<"daily used programs
                     cout<<"
                                                                       MINI MAXI CLOS";
                     cout<<"\n\n\n\n\n\n\n\n\n";</pre>
                     cout<<"1. odinary calculator\n";</pre>
                     cout<<"2. student report card program\n";</pre>
                     cout<<"\n\nEnter your choice (1-3)\n";</pre>
```

```
cout<<"Enter 0 to go back";
                                           cin>>a[10];
                                           clrscr();
                                           switch(a[10])
                                            {
                                                    case 0: goto abc7;
                                                    case 1:long a,b;
                                                     char ch;
                                                     cout<<"Enter opperator +, -, *, /";
                                                     cin>>ch;
                                                     cout << "Enter the two numbers";
                                                     cin>>a>>b;
                                                     switch(ch)
                                                     {
                                                             case '+':cout<<"the sum is = "<<a+b;
                                                             break;
                                                             case '-':cout<<"the difference is = "<<a-b;
                                                             break;
                                                             case '*':cout<<"The product is = "<<a*b;
                                                             break;
                                                             case '/':if(b==0)
                                                             cout << "division by 0 not possible";
                                                             cout<<"the quotient is = "<<a/b;
                                                             break;
                                                     }
                                    }
                 }
}
}
                 else if(desktop_choice==3)
                 Textwelcome();
                 for(long az=0; az<999999; ++az);
                 clrscr();
                 cout<<"\n\n\t\t\t Select A Game From Here :\n";
                 cout<<"
                                 1.TICTACTO\n\n";
                 cout<<"
                                 2.SNAKE GAME\n\n":
                 cout<<"
                                 O.BACK TO DESKTOP\n\n";
                 cout<<"
                                 Enter your choice \n";
                 int game_choice;
                 cin>>game_choice;
                 if(game_choice==1)
                          Initialize();
                          initiateboard ();
                          play ();
                          getch ();
                          closegraph ();
```

```
else if(game_choice==2)
                                  Initialize();
                                  Snake snk;
                                  snk.init();
                                  snk.move();
                                  closegraph();
                 else if(game_choice==2)
                         goto desktop;
else if(desktop_choice==4)
        cout << "WELCOME TO MCLABs Browser\n";
        cout << " Choose From the Following \n";
        cout<<"1. www.dpsdamanjodi.com\n\n";</pre>
        cout << "O. BACK TO DESKTOP\n\n";
        int browser_choice;
        cin>>browser_choice;
        if(browser_choice==1)
                 clrscr();
                 cout<<"\n\n\t\t\t\ Report card\n";</pre>
                 cout << "\n\n\n\n\n\n\n\n\n\n\n\
                 int z[59];
                 cin>>z[0];
                 clrscr();
                 bcd1:
                 cout<<"\t\t\t OPTIONS\n";</pre>
                 cout<<"\n\n\n\t\t1. New entry";
                 cout << "\n\t\t2. display all entries";
                 cout << "\n\t\t3. search entry";
                 cout<<"\n\nEnter your option\n";</pre>
                 cin>>z[1];
                 char ch[20];
                 stud s[30];
                 int i;
                 clrscr();
                 switch(z[1])
                         case 1:cout<<"\t\t\t New Entry\n";
                 for( i=0;i<300;++i)
                         char comp[]="comp", bio[]="bio", ch1;
                         cout << "details of student "<< i+1 << '\n';
                         cout<<"enter name
```

```
cout<<"\nenter roll
                  cin>>s[i].roll;
                  cout<<"\nenter ad no
                  cin>>s[i].adno;
                  cout<<"\nenter class
                  gets(s[i].clas);
                  cout<<"\nenter section
                  gets(s[i].sec);
                  cout<<"\nenter marks in physics ";
                  cin>>s[i].phy;
                  cout<<"\nenter marks in chemistry ";</pre>
                  cin>>s[i].che;
                  cout<<"\nenter marks in maths
                  cin>>s[i].maths;
                  cout<<"what has the child opted for computer or bio (comp/bio)";
                           gets(ch);
                           a=strcmp(ch,comp);
                           if(a==0)
                                    cout<<"\nenter marks in computer ";
                                    cin>>s[i].comp;
                           }
                           else
                           {
                                    cout << "\nenter marks in biology ";
                                    cin>>s[i].bio;
                           cout<<"\nwant to add a new entry (y/n)";
                           cin>>ch1;
                           if(ch1=='y')
                                    clrscr();
                                    continue;
                           else
                                    clrscr();
                                    goto bcd1;
                           }
case 2: {cout<<"\t\tdetails of all enteries";</pre>
                   for(int k=0; k<=i; ++k)
                            int a;
                            cout<<"details of student "<<k+1;</pre>
                            cout<<"\n\nname
                                                   "<< s[k].name;
                            cout<<"\nroll no
                                               "<<s[k].roll;
```

gets(s[i].name);

```
cout<<"\nclass
                                                                "<<s[k].clas;
                                             cout<<"\nsection
                                                                "<<s[k].sec;
                                             cout<<"\nphysics
                                                                 "<<s[k].phy;
                                             cout << "\nchemistry "<< s[k].che;
                                             cout<<"\nmaths
                                                                 "<<s[k].maths;
                                             a=strcmp(ch,"comp");
                                             if(a==0)
                                                     cout<<"\n computer "<<s[k].comp;</pre>
                                            else
                                                     cout<<"\nbiology
                                                                        "<<s[k].bio<<"\n\n";
                                    }
                                    }
                 case 3:
                                    cout<<"\n\nenter name ";
                                    char ch2[10];
                                    gets(ch2);
                                    int b;
                                    for(int k=0;k<=i;++k)
                                            b=strcmp(ch2,s[k].name);
                                            if(b==0)
                                                     cout<<"details of student "<<k+1;
                                                     cout<<"\n\nname
                                                                           "<< s[k].name;
                                                     cout<<"\nroll no
                                                                        "<<s[k].roll;
                                                     cout<<"\nad no
                                                                        "<<s[k].adno;
                                                     cout<<"\nclass
                                                                        "<<s[k].clas;
                                                     cout<<"\nsection
                                                                         "<<s[k].sec;
                                                     cout<<"\nphysics
                                                                         "<<s[k].phy;
                                                     cout << "\nchemistry "<<s[k].che;
                                                     cout << "\nmaths
                                                                         "<<s[k].maths;
                                                     b=strcmp(ch,"comp");
                                                     if(b==0)
                                                     cout<<"\n computer "<<s[k].comp;</pre>
                                                     else
                                                     cout<<"\nbiology
                                                                         "<<s[k].bio<<"\n\n";
                                            }
                                   }
}
if(browser_choice==1)
                          goto desktop;
                 }
}
        else if(desktop_choice==5)
        {
                 int shutdown_choice;
```

cout<<"\nad no

"<<s[k].adno;

```
cout<<"Shut Down McLabs\n\n";
              cout<<"Press 0 (Zero) to Shutdown\n\n";
              cin>>shutdown_choice;
              if(shutdown_choice==0)
              exit(0);
       }
}
}// void main bracket
/*
                                                               */
       INITIALIZE: Initializes the graphics system and reports */
       any errors which occured.
void Initialize(void)
                            /* Used to read the aspect ratio*/
 int xasp, yasp;
 GraphDriver = DETECT;
                                   /* Request auto-detection
 initgraph( &GraphDriver, &GraphMode, "");
 ErrorCode = graphresult();
                                   /* Read result of initialization*/
 if(ErrorCode != grOk){
                            /* Error occured during init
  printf(" Graphics System Error: %s\n", grapherrormsg( ErrorCode ) );
  exit(1);
}
 getpalette( &palette );
                            /* Read the palette from board */
 MaxColors = getmaxcolor() + 1; /* Read maximum number of colors*/
 MaxX = getmaxx();
                                   /* Read size of screen
 MaxY = getmaxy();
 getaspectratio( &xasp, &yasp ); /* read the hardware aspect
 AspectRatio = (double)xasp / (double)yasp; /* Get correction factor
       INTROversion2.0
void intro(void)
       void *image;
       int size;
       int dr=9,mode=2;
       initgraph(&dr,&mode,"..\\bgi");
       size=imagesize(140,140,500,250);
       image=malloc(size);
       setfillstyle(SOLID_FILL,GREEN);
```

```
circle(200,200,50);
        floodfill(200,200,WHITE);
        setcolor(LIGHTGRAY);
        circle(200,200,19);
        setcolor(WHITE);
        circle(200,200,18);
        circle(200,200,49);
        circle(200,200,53);
        circle(200,200,20);
        arc(215,215,350,90,30);
        arc(210,182,90,194,30);
        arc(180,195,180,300,30);
        settextstyle(1,HORIZ_DIR,1);
        setcolor(WHITE);
        outtextxy(265,180,"McLab Operating Systems");
        outtextxy(265,185,"_
                                                    _");
        outtextxy(265,210,"Version 2.0");
        settextstyle(0,HORIZ_DIR,0);
        setcolor(DARKGRAY);
        outtextxy(265,240,"(c) Copyrights");
        setcolor(WHITE);
        outtextxy(375,240," Sailesh Sahu:");
        setcolor(DARKGRAY);
        outtextxy(275,250,"
                                     #developer");
        getimage(141,141,499,259,image);
        cleardevice();
        for(int count=1;count<300;count+=2)</pre>
        putimage(1+count,100,image,COPY_PUT);
        for(int down=0;down<640;++down)
        {
                delay(5);
                line(1,220,1+down,220);
        }
        setcolor(BLUE);
        for(int bottom=0;bottom<300;bottom+=4)</pre>
        line(1,220+bottom,640,220+bottom);
        free(image);
        getch();
        closegraph();
        TEXTwelcome
void Textwelcome(void)
```

}

```
{
 int font, size;
 int h, y, i;
 struct viewporttype vp;
 char buffer[80];
 for(font=10; font<NFONTS; ++font){ /* For each of the avail. fonts
                                                             */
 MainWindow(buffer);
 getviewsettings( &vp );
 settextjustify( CENTER_TEXT, CENTER_TEXT );
 y = textheight( "H" );
  for( i=4; i<5; ++i){
                          /* For each of the sizes */
   size = (font == SMALL_FONT) ? i+3 : i;
   changetextstyle(font, HORIZ_DIR, size);
   h = textheight( "H" );
  y += h;
 }
              _____8__8__8\n";
cout<<"
          _____88_8_8__8\n";
cout<<"
         _____888____88___88888\n";
cout<<"
           _____8888_____88_8___88\n";
cout<<"
cout<<"
             8888
                       88 8 8\n";
____8888_____8\n";
cout<<"
           ____8888_____8___8\n";
cout<<"_
            _____88888____8\n";
cout<<"
         _____888888_____8\n";
cout<<"_
cout<<"__888_____88888_8\n";
cout<<"8888888___
                  ____88____\n";
cout<<"_8888888___
                 8 \n";
cout<<"__888888 _____\n";
               _8____8___\n";
cout<<"___88____
cout<<"
              ___8___8___8_8\n";
        _____8888_8__88_8_88888\n";
cout<<"
cout<<"____888888 8 88 8888888 \n";
        __888888__88___88888\n";
cout<<"
cout<<"____88888____8__888\n";
cout<<" 88 8 8\n":
         ___8_____8____\n";
cout<<"
cout<<"
                   ___8____\n";
         ______8_8__\n";
cout<<"
         _____88_8____\n";
cout<<"
                  ___88____\n";
cout<<"
                  ___8____\n";
cout<<"
cout<<'\n'<<'\n'<<'\t';
if( font != DEFAULT_FONT ){ /* Show user declared font size */
   y += h / 2;
                          /* Move down the screen */
   settextjustify( CENTER_TEXT, TOP_TEXT );
   setusercharsize(5, 6, 3, 2);
```

```
changetextstyle(font, HORIZ_DIR, USER_CHAR_SIZE);
   outtextxy( (vp.right-vp.left)/2, y, "WELCOME" );
 }
}
                                 /* End of FONT loop
}
      TEXT velkommen
                                 */
void Textvelkommen(void)
{
 int font, size;
int h, y, i;
struct viewporttype vp;
 char buffer[80];
 for(font=10; font<NFONTS; ++font){ /* For each of the avail. fonts
 MainWindow(buffer);
 getviewsettings( &vp );
 settextjustify( CENTER_TEXT, CENTER_TEXT );
 y = textheight("H");
 for( i=5; i<=5; ++i)
                        /* For each of the sizes */
   size = (font == SMALL_FONT) ? i+3 : i;
   changetextstyle(font, HORIZ_DIR, size);
   h = textheight( "H" );
  y += h;
 }
        _____@____@@\n";
cout<<"_
cout<<"_
                 __@@__@_@@@\n";
                 ___@___@\n";
cout<<"
             _____@@_@__@____@\n";
cout<<"
              ___@@@____@@___@@@@@\n";
cout<<"
cout<<"
              __@@@@_____@@_@____@@\n";
             __@@@@______@@_____@_@\n";
cout<<"
          @@@@ @ @\n";
cout<<"
cout<<"_
             __@@@@@__
                           _@___
                                  @\n";
          ____@@@@@____@___@\n";
cout<<"_
       _____@@@@@@@_____@\n";
cout<<"
cout<<"__@@@_____@@@@@@_@\n";
cout<<"@@@@@@@@__
                   ____@@\n";
cout<<"_@@@@@@@______@\n";
cout<<"__@@@@@@_____@@\n";
cout<<"___@@_____@\n";
cout<<"____@____@@_@@\n";
       _____@@@@_@__@@_@_@@\n";
cout<<"____@@@@@@@_@_@@@_@@@\n";
cout<<"_
       __@@@@@@@__@@_____@@@\n";
cout<<"____@@@@@____@___@@\n";
cout<<"____@@______@\n";
```

```
cout<<"____@___\n";
                       __@____\n";
cout<<"___
cout<<'\n'<<'\n'<<'\t';
if( font != DEFAULT_FONT ){
                             /* Show user declared font size */
   y += h / 2;
                               /* Move down the screen */
   settextjustify( CENTER_TEXT, TOP_TEXT );
   setusercharsize(5, 6, 3, 2);
   changetextstyle(font, HORIZ_DIR, USER_CHAR_SIZE);
   outtextxy( (vp.right-vp.left)/2, y, "VELKOMMEN" );
  }
}
                                       /* End of FONT loop
                                                                       */
}
                               */
        TEXT WELKOM
void TextWELKOM(void)
{
 int font, size;
 int h, y, i;
 struct viewporttype vp;
 char buffer[80];
 for(font=10; font<NFONTS; ++font){ /* For each of the avail. fonts
  MainWindow(buffer);
  getviewsettings( &vp );
  settextjustify( CENTER_TEXT, CENTER_TEXT );
  y = textheight( "H" );
  for( i=5; i<=5; ++i)
                             /* For each of the sizes */
   size = (font == SMALL_FONT) ? i+3: i;
   changetextstyle( font, HORIZ_DIR, size );
   h = textheight( "H" );
   y += h;
  }
cout<<"
                       .-.\n";
                     _ / \ __\n";
cout<<"
                   ( `'.\ /.'` )\n";
cout<<"
cout<<"
                    '-._.(;;;)._.-'\n";
                    .-' ,`.`, '-.\n";
cout<<"
                   (__.-'/ \'-.__)/)_\n";
cout<<"
cout<<"
                      \ /\ //)\n";
                       '-' | \/.-')\n";
cout<<"
cout<<"
                       , |.'/\'..)\n";
                       cout<<"
cout<<"
                       | \ /\n";
cout<<"
                        \|/ _\n";
cout<<"
cout<<"
                        / __//\n";
\verb"cout"<'\n'<<'\n'<<'\n'<<'\t'<<'\t';
```

```
if( font != DEFAULT_FONT ){ /* Show user declared font size */
                                 /* Move down the screen */
   y += h / 2;
   settextjustify( CENTER_TEXT, TOP_TEXT );
   setusercharsize(5, 6, 3, 2);
   changetextstyle(font, HORIZ_DIR, USER_CHAR_SIZE);
   outtextxy( (vp.right-vp.left)/2, y, "\n\tWELKOM" );
  }
 }
                                         /* End of FONT loop
}
        TEXT BIENVENUE
                                         */
void TextBIENVENUE(void)
{
 int font, size;
 int h, y, i;
 struct viewporttype vp;
 char buffer[80];
 for(font=10; font<NFONTS; ++font){ /* For each of the avail. fonts
  MainWindow(buffer);
  getviewsettings( &vp );
  settextjustify( CENTER_TEXT, CENTER_TEXT );
  y = textheight( "H" );
  for( i=5; i<=5; ++i)
                              /* For each of the sizes */
   size = (font == SMALL_FONT) ? i+3 : i;
   changetextstyle(font, HORIZ_DIR, size);
   h = textheight("H");
   y += h;
  }
cout<<"
                ,--.\n";
cout<<"
               ,-({ })-. \n";
cout<<"
              ({ \,./,---. ,---.\n";
cout<<"
              ,`--{##,--.})({ })\n";
           ,--.({ ,-(( })--.\,. /--.\n";
cout<<"
cout<<"
         ,-({ ),-.({__\ /__ )#,--. )\n";
         ({_ \ /__})' ',.' `:_( })'\n";
cout<<"
         .' `,.' `.( {##} })_\ /---.\n";
cout<<"
cout<<" (( {##} })-..-`'.___,' ',.'___ )\n";
cout<<"
          ._,,`'`._,' ({ )_) {##} `:\n";
          '.({ )_,'._`---' (`--/`'\ ))\n";
cout<<"
           `--' `._`.\|//,';`-( )--'\n";
cout<<"
              ,--.__`,`,'--._ `--'\n";
cout<<"
cout<<"
             ; _, / \| \- \ \n";
cout<<"
            ;_,'_,-'__||\ ,\ |\n";
cout<<"
            ;---' ,'_/\|'._\'\n";
cout<<'\n'<<'\n'<<'\n'<<'\t'<<'\t';
if( font != DEFAULT_FONT ){ /* Show user declared font size */
```

```
y += h / 2;
                                /* Move down the screen */
   settextjustify( CENTER_TEXT, TOP_TEXT );
   setusercharsize(5, 6, 3, 2);
   changetextstyle(font, HORIZ_DIR, USER_CHAR_SIZE);
   outtextxy( (vp.right-vp.left)/2, y, "BIENVENUE" );
                                        /* End of FONT loop
 }
                                        */
        TEXT WILLKOMMEN
void TextWILLKOMMEN(void)
 int font, size;
 int h, y, i;
 struct viewporttype vp;
 char buffer[80];
 for(font=10; font<NFONTS; ++font){ /* For each of the avail. fonts
                                                                        */
  MainWindow(buffer);
  getviewsettings( &vp );
  settextjustify( CENTER_TEXT, CENTER_TEXT );
  y = textheight("H");
  for( i=5; i<=5; ++i)
                             /* For each of the sizes */
  {
   size = (font == SMALL_FONT) ? i+3: i;
   changetextstyle( font, HORIZ_DIR, size );
   h = textheight( "H" );
   y += h;
  }
cout<<"
                   .-~~-.\n";
                       )\n";
cout<<"
cout<<"
               .~ ~ -.\ /.- ~~ .\n";
cout<<"
               '. .'
                           <\n";
cout<<"
                 .- -.
                             )\n";
                --.-~ `--' ~-.--'\n";
cout<<"
cout<<"
                    : ) \n";
cout<<"
                 ~--. : .--~ \n";
cout<<"
                   ~-.-^-.-~ \_ \n";
cout<<"
                        \\'\n";
cout<<"
                         `.`. \n";
                    . - ~ ~-.__`.`-.\n";
cout<<"
                 .-~ . - ~ }~ ~ ~-\n";
cout<<"
cout<<"
cout<<"
                                 \n";
                /_~_ . - ~
cout<<'\n'<<'\n'<<'\n'<<'\h'<<'\t';
if( font != DEFAULT_FONT ){
                             /* Show user declared font size */
   y += h / 2;
                                /* Move down the screen */
   settextjustify( CENTER_TEXT, TOP_TEXT );
```

```
setusercharsize(5, 6, 3, 2);
   changetextstyle(font, HORIZ_DIR, USER_CHAR_SIZE);
   outtextxy( (vp.right-vp.left)/2, y, "\n\t\WILLKOMMEN");
  }
                                         /* End of FONT loop
                                                                          */
 }
}
        TEXT BENVENUTO
                                         */
void TextBENVENUTO(void)
{
 int font, size;
 int h, y, i;
 struct viewporttype vp;
 char buffer[80];
 for(font=10; font<NFONTS; ++font){ /* For each of the avail. fonts
                                                                          */
  MainWindow(buffer);
  getviewsettings( &vp );
  settextjustify( CENTER_TEXT, CENTER_TEXT );
  y = textheight("H");
  for( i=5; i<=5; ++i)
                              /* For each of the sizes */
   size = (font == SMALL_FONT) ? i+3 : i;
   changetextstyle(font, HORIZ_DIR, size);
   h = textheight( "H" );
   y += h;
  }
cout<<"
         . .\n";
cout<<" ... :``..':\n";
        : ````.' :''::'\n";
cout<<"
cout<<" ..:.. : .'':\n";
cout<<"``. `: .'
                   :\n";
cout<<" : : :
                   :\n";
cout<<"
        : : :
                    :\n";
cout<<"
        : : :
                   :\n";
         : ::..'''```::.\n";
cout<<"
         : ...:..' .''\n";
cout<<"
          .' .' .::::'\n";
cout<<"
         :..'''``::::::\n";
cout<<"
cout<<"
                `::::\n";
cout<<"
                 `::.\n";
cout<<"
                  `::\n";
cout<<"
                  :::.\n";
           ..:```.:'`. ::'`.\n";
cout<<"
cout<<"
                `:.: ::\n";
cout<<"
          .: .:``:::\n";
          .: ..'' :::\n";
cout<<"
         : .''
cout<<"
                   .::\n";
```

```
cout<<"
                  .'`::\n";
                    ::\n";
cout<<"
cout<<"
                    ::\n";
cout<<"
                    :\n";
cout<<"
                    :\n";
cout<<"
                     :\n";
cout<<"
                     :\n";
cout<<'\n'<<'\n'<<'\n'<<'\h'<<'\t';
if( font != DEFAULT_FONT ){
                                /* Show user declared font size */
   y += h / 2;
                                /* Move down the screen */
   settextjustify( CENTER_TEXT, TOP_TEXT );
   setusercharsize(5, 6, 3, 2);
   changetextstyle(font, HORIZ_DIR, USER_CHAR_SIZE);
   outtextxy( (vp.right-vp.left)/2, y, "BENVENUTO" );
  }
                                        /* End of FONT loop
 }
}
        TEXT VALKOMMEN
                                                                         */
void TextVALKOMMEN(void)
 int font, size;
 int h, y, i;
 struct viewporttype vp;
 char buffer[80];
 for(font=10; font<NFONTS; ++font){ /* For each of the avail. fonts
                                                                         */
  MainWindow(buffer);
  getviewsettings( &vp );
  settextjustify( CENTER_TEXT, CENTER_TEXT );
  y = textheight( "H" );
                             /* For each of the sizes */
  for( i=5; i<=5; ++i)
   size = (font == SMALL_FONT) ? i+3 : i;
   changetextstyle(font, HORIZ_DIR, size);
   h = textheight( "H" );
   y += h;
if( font != DEFAULT_FONT ){ /* Show user declared font size */
   y += h / 2;
                                /* Move down the screen */
   settextjustify( CENTER_TEXT, TOP_TEXT );
   setusercharsize(5, 6, 3, 2);
   changetextstyle(font, HORIZ_DIR, USER_CHAR_SIZE);
   outtextxy( (vp.right-vp.left)/2, y, "\n\t\tVALKOMMEN" );
  }
 }
                                        /* End of FONT loop
}
                                                                         */
```

```
TEXT BIENVENIDO
                                        */
void TextBIENVENIDO(void)
 int font, size;
 int h, y, i;
 struct viewporttype vp;
 char buffer[80];
 for(font=10; font<NFONTS; ++font){ /* For each of the avail. fonts
  MainWindow(buffer);
  getviewsettings( &vp );
  settextjustify( CENTER_TEXT, CENTER_TEXT );
  y = textheight("H");
  for( i=5; i<=5; ++i)
                             /* For each of the sizes */
   size = (font == SMALL_FONT) ? i+3 : i;
   changetextstyle( font, HORIZ_DIR, size );
   h = textheight( "H" );
   y += h;
  if( font != DEFAULT_FONT ){ /* Show user declared font size */
                                /* Move down the screen */
   y += h / 2;
   settextjustify( CENTER_TEXT, TOP_TEXT );
   setusercharsize(5, 6, 3, 2);
   changetextstyle(font, HORIZ_DIR, USER_CHAR_SIZE);
   outtextxy( (vp.right-vp.left)/2, y, "\t\tBIENVENIDO" );
}
                                        /* End of FONT loop
        TEXT TERVETULOA
void TextTERVETULOA(void)
 int font, size;
 int h, y, i;
 struct viewporttype vp;
 char buffer[80];
 for(font=10; font<NFONTS; ++font){ /* For each of the avail. fonts
                                                                        */
 MainWindow(buffer);
 getviewsettings( &vp );
 settextjustify( CENTER_TEXT, CENTER_TEXT );
 y = textheight( "H" );
 for( i=5; i<=5; ++i)
                            /* For each of the sizes */
   size = (font == SMALL_FONT) ? i+3 : i;
   changetextstyle(font, HORIZ_DIR, size);
   h = textheight( "H" );
```

```
y += h;
 }
cout<<"....** *\n";
cout<<"....*** .. * .. **** \n";
cout<<"....*\n";
cout<<".....*\n";
cout<<"....****\n";
cout<<".....**\n";
cout<<".....*****....**....*.*.\n";
cout<<".....*\n";
cout<<".....*\n";
cout<<".....*\n";
cout<<".....*\n";
cout<<".....****** . ***\n";
cout<<"******.....**\n";
cout<<".******......*\n";
cout<<". ******.... * *\n";
cout<<"..***..*.....**\n";
cout<<".....*....*\n";
cout<<"....****.*....*\n";
cout<<"...******..*..*\n";
cout<<"...******...*.\n";
cout<<"...****....*\n";
cout<<"...*\n";
cout<<"...*..... **.*\n";
cout<<".....**\n";
cout<<".....*\n";
cout<<".....*\n";
cout<<".....*\n";
cout<<'\n'<<'\n'<<'\n'<<'\t'<<'\t';
 if( font != DEFAULT_FONT ){ /* Show user declared font size */
   y += h / 2;
                          /* Move down the screen */
   settextjustify( CENTER_TEXT, TOP_TEXT );
   setusercharsize(5, 6, 3, 2);
   changetextstyle(font, HORIZ_DIR, USER_CHAR_SIZE);
   outtextxy( (vp.right-vp.left)/2, y, "TERVETULOA" );
 }
                                 /* End of FONT loop
}
}
      TEXT BEM-VINDO
void TextBEMVINDO(void)
{
 int font, size;
 int h, y, i;
struct viewporttype vp;
 char buffer[80];
```

```
for(font=10; font<NFONTS; ++font){ /* For each of the avail. fonts
                                                                         */
  MainWindow(buffer);
  getviewsettings( &vp );
  settextjustify( CENTER_TEXT, CENTER_TEXT );
  y = textheight( "H" );
  for( i=5; i<=5; ++i)
                              /* For each of the sizes */
   size = (font == SMALL_FONT) ? i+3: i;
   changetextstyle(font, HORIZ_DIR, size);
   h = textheight( "H" );
   y += h;
  if( font != DEFAULT_FONT ){ /* Show user declared font size */
                                /* Move down the screen */
   settextjustify( CENTER_TEXT, TOP_TEXT );
   setusercharsize(5, 6, 3, 2);
   changetextstyle(font, HORIZ_DIR, USER_CHAR_SIZE);
   outtextxy( (vp.right-vp.left)/2, y, "BEM-VINDO" );
  }
                                         /* End of FONT loop
                                                                          */
        MAINWINDOW: Establish the main window for the demo and set
                                                                         */
                                                                         */
        a viewport for the demo code.
                                                                         */
void MainWindow( char *header )
{
 int height;
 cleardevice();
                                /* Clear graphics screen */
 setcolor( MaxColors - 1 );
                                         /* Set current color to white
                                                                         */
 setviewport(0,0, MaxX, MaxY, 1);
                                         /* Open port to full screen
 height = textheight( "H" );
                                 /* Get basic text height
 changetextstyle( DEFAULT_FONT, HORIZ_DIR, 1 );
 settextjustify( CENTER_TEXT, TOP_TEXT );
 outtextxy( MaxX/2, 2, header );
 setviewport( 0, height+4, MaxX, MaxY-(height+4), 1);
 setviewport(1, height+5, MaxX-1, MaxY-(height+5), 1);
}
        CHANGETEXTSTYLE: similar to settextstyle, but checks for
        errors that might occur whil loading the font file.
void changetextstyle(int font, int direction, int charsize)
{
 int ErrorCode;
                                /* clear error code
 graphresult();
 settextstyle(font, direction, charsize);
 ErrorCode = graphresult();
                                         /* check result
 if(ErrorCode!= grOk){
                                /* if error occured
  closegraph();
```

```
printf(" Graphics System Error: %s\n", grapherrormsg( ErrorCode ) );
exit( 0 );
}
```

Introducing °MCLAB

Think Simple ! Think Different!

Built on a rock-solid foundation, McLab OS is engineered to take full advantage of the technologies and to deliver the most intuitive and integrated computer experience.

Interact with your computer in a whole new way.

A whole new Interface... Directly control what's on your screen in a more fluid, natural, and intuitive way.

Easy to use and incredibly powerful.

From the desktop you see when you start up your McLab to the applications you use every day, everything is designed to be simple and intuitive. Of course, making amazing things simple requires some seriously advanced technologies, and McLab is loaded with them. Not only is it built on a rock-solid, time-tested UNIX foundation that provides unparalleled stability, it also delivers

incredible performance, stunning graphics, industry-leading support for Internet standards, and it works seamlessly...

Ease Of Access

Working and playing on McLab is all that fast you won't believe. The Desktop is a place for storing and launching your favorite apps, and it makes switching between them a breeze. The Dock also includes Stacks, folders that give you quick access to documents, files, and downloads.

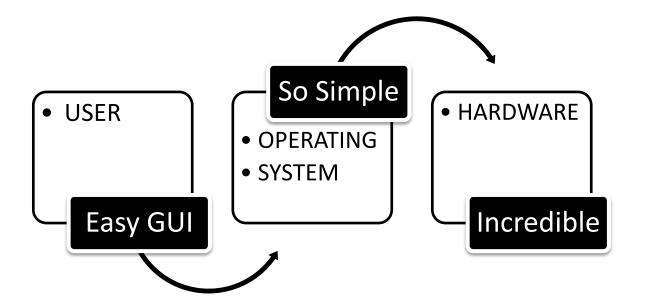
Play Like You Never Played Before

The stunning graphics on the McLab empowers the user to play games with powerful graphics options... A whole new gaming experience taking you inside the game.

So Simple;) A Child's Play

Besides these powerful features the McLab doesn't make itself confusing... Its so easy to operate... McLab takes care, you need not worry...

The Concept



When you turn on your computer, it's nice to think that you're in control. There's the trusty computer mouse, which you can move anywhere on the screen, summoning up your music library or Internet browser at the slightest whim. Although it's easy to feel like a director in front of your desktop or laptop, there's a lot going on inside, and the real man behind the curtain handling the necessary tasks is the operating system.

The purpose of an operating system is to organize and control hardware and software so that the device it lives in behaves in a flexible but predictable way. In this article, we'll tell you what a piece of software must do to be called an operating system, show

you how the operating system in your desktop computer works and give you some examples of how to take control of the other operating systems around you.

Bibliography

- Computer Science with C++ bySumitra Arora
- www.wikipedia.com
- www.google.com



```
Window Help
    File Edit Search Run Compile Debug Project
                                                         Options
 PROJEC~1.CPP
 include<iostream.h>
#include<comio.h>
#include<stdio.h>
#include<graphics.h>
#include<time.h>
#include<string.h>
#include<stdlib.h>
#include<math.h>
#include<process.h>
#include<dos.h>
#include<ctype.h>
#include<fstream.h>
#include<malloc.h>
#include<iomanip.h>
int midx, midy;
char str1[]={"Sailesh Sahu"};
tifdef
         TINY_
       : 1:1 =
F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make
                                                                        © Sailesh Sahu
```



Developer:-

Sailesh Sahu

Processing System files.....

Completed... 57.500000 ×

	<u> </u>	00				
e	000	0				
	P					
	00000	•				
0000000	0000000	@				
	00000000					
0	00000000	@				
0	00000000	<u> </u>				
0	0000000		USER NAME : McLAB			
@	00000	@	Enter password: ****			
0000	P					
	20					
	e <u> </u>	@				
	0 00 000	20000				
<u>e</u> <u>ee</u>						
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	<u> </u>					
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1.	Documents					
2. 1	Computer					
3	Game Center					
J.	dame center					
4	Browser					
5.	Begin	lSat	Dec	29	17:47:2	7 2012
Ent	er Your Choice To Start :					
	or roar onored to dear to					

My Documents

1. 2. 3.

MINI MAXI CLOS

1.code of pallindrom

2.code for reversing a string

3.code for finding an element in a set of numbers

4.printing an AP till the nth term

5.code for finding out the LCM and HCF of two given numbers

enter 0 to go back : _

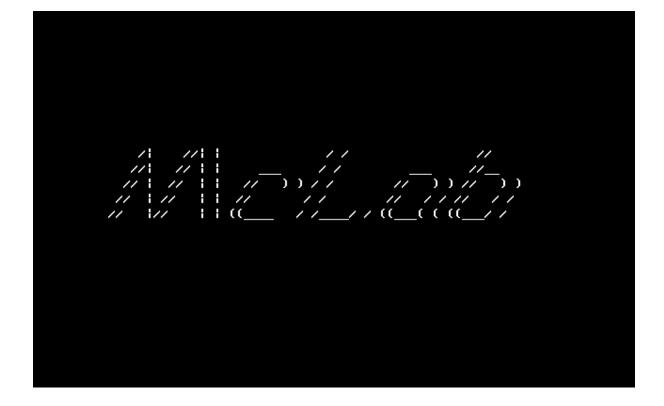
MY COMPUTER 1. 2. 3.
MINI MAXI CLOS

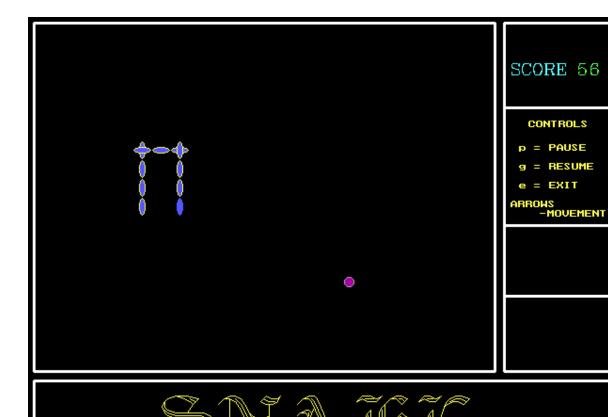
Hard disk drives

C Drive D Drive E Drive

Enter your choice c, d or e:

\$\$
\$\$\$\$ <u>`</u> \$\$\$\$\$\$\$\$\$
<u> </u>
<u> </u>
<u>ss ssšššššššš s šš</u>
\$ <u>`\$\$`_\$\$\$\$\$\$\$`_\$`\$\$</u>
\$\$\$\$\$\$\$\$\$\$\$ <u>\$</u> \$\$\$\$\$\$\$\$
\$\$\$\$\$\$\$ <u>\$</u>
\$\$\$\$\$ \$\$\$ \$\$ \$\$\$\$\$\$\$\$\$\$\$
<u> </u>
\$\$ \$
\$
\$\$\$ \$
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MOLAD
MCLAB





OPTIONS

- New entry
 display all entries
 search entry

Enter your option

	details of all enteriesdetails of student 1
name roll no ad no class section physics	
chemistry maths computer	91 92 93
enter name	

