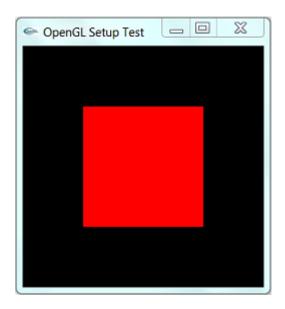


Practical -14

2D Graphics functions:

```
/*
* GL01Hello.cpp: Test OpenGL C/C++ Setup
*/
#include <windows.h> // For MS Windows
#include <GL/glut.h> // GLUT, includes glu.h and gl.h
/* Handler for window-repaint event. Call back when the window first appears and
 whenever the window needs to be re-painted. */
void display() {
 glClearColor(0.0f, 0.0f, 0.0f, 1.0f); // Set background color to black and opaque
                                             // Clear the color buffer
 glClear(GL_COLOR_BUFFER_BIT);
 // Draw a Red 1x1 Square centered at origin
 glBegin(GL_QUADS);
                                 // Each set of 4 vertices form a quad
   glColor3f(1.0f, 0.0f, 0.0f); // Red
   glVertex2f(-0.5f, -0.5f); // x, y
   glVertex2f( 0.5f, -0.5f);
   glVertex2f( 0.5f, 0.5f);
   glVertex2f(-0.5f, 0.5f);
 glEnd();
 glFlush(); // Render now
}
/* Main function: GLUT runs as a console application starting at main() */
int main(int argc, char** argv) {
 glutInit(&argc, argv);
                                 // Initialize GLUT
 glutCreateWindow("OpenGL Setup Test"); // Create a window with the given title
 glutInitWindowSize(320, 320); // Set the window's initial width & height
 glutInitWindowPosition(50, 50); // Position the window's initial top-left corner
 glutDisplayFunc(display); // Register display callback handler for window re-paint
```

```
glutMainLoop();  // Enter the infinitely event-processing loop
return 0;
}
```



3D Graphics functions:

```
/*
* OGL01Shape3D.cpp: 3D Shapes
*/
#include <windows.h> // for MS Windows
#include <GL/glut.h> // GLUT, include glu.h and gl.h

/* Global variables */
char title[] = "3D Shapes";

/* Initialize OpenGL Graphics */
void initGL() {
    glClearColor(0.0f, 0.0f, 0.0f, 1.0f); // Set background color to black and opaque
    glClearDepth(1.0f); // Set background depth to farthest
    glEnable(GL_DEPTH_TEST); // Enable depth testing for z-culling
    glDepthFunc(GL_LEQUAL); // Set the type of depth-test
    glShadeModel(GL_SMOOTH); // Enable smooth shading
```

```
glHint(GL_PERSPECTIVE_CORRECTION_HINT, GL_NICEST); // Nice perspective
corrections
}
/* Handler for window-repaint event. Called back when the window first appears and
 whenever the window needs to be re-painted. */
void display() {
 glClear(GL COLOR BUFFER BIT | GL DEPTH BUFFER BIT); // Clear color and
depth buffers
 glMatrixMode(GL_MODELVIEW); // To operate on model-view matrix
 // Render a color-cube consisting of 6 quads with different colors
 glLoadIdentity();
                            // Reset the model-view matrix
 glTranslatef(1.5f, 0.0f, -7.0f); // Move right and into the screen
 glBegin(GL_QUADS);
                                  // Begin drawing the color cube with 6 quads
   // Top face (y = 1.0f)
   // Define vertices in counter-clockwise (CCW) order with normal pointing out
   glColor3f(0.0f, 1.0f, 0.0f); // Green
   glVertex3f( 1.0f, 1.0f, -1.0f);
   glVertex3f(-1.0f, 1.0f, -1.0f);
   glVertex3f(-1.0f, 1.0f, 1.0f);
   glVertex3f( 1.0f, 1.0f, 1.0f);
   // Bottom face (y = -1.0f)
   glColor3f(1.0f, 0.5f, 0.0f); // Orange
   glVertex3f( 1.0f, -1.0f, 1.0f);
   glVertex3f(-1.0f, -1.0f, 1.0f);
   glVertex3f(-1.0f, -1.0f, -1.0f);
   glVertex3f( 1.0f, -1.0f, -1.0f);
   // Front face (z = 1.0f)
   glColor3f(1.0f, 0.0f, 0.0f); // Red
   glVertex3f( 1.0f, 1.0f, 1.0f);
   glVertex3f(-1.0f, 1.0f, 1.0f);
```

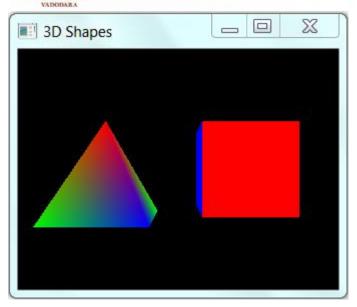


```
glVertex3f(-1.0f, -1.0f, 1.0f);
  glVertex3f( 1.0f, -1.0f, 1.0f);
  // Back face (z = -1.0f)
  glColor3f(1.0f, 1.0f, 0.0f); // Yellow
  glVertex3f( 1.0f, -1.0f, -1.0f);
  glVertex3f(-1.0f, -1.0f, -1.0f);
  glVertex3f(-1.0f, 1.0f, -1.0f);
  glVertex3f( 1.0f, 1.0f, -1.0f);
  // Left face (x = -1.0f)
  glColor3f(0.0f, 0.0f, 1.0f); // Blue
  glVertex3f(-1.0f, 1.0f, 1.0f);
  glVertex3f(-1.0f, 1.0f, -1.0f);
  glVertex3f(-1.0f, -1.0f, -1.0f);
  glVertex3f(-1.0f, -1.0f, 1.0f);
  // Right face (x = 1.0f)
  glColor3f(1.0f, 0.0f, 1.0f); // Magenta
  glVertex3f(1.0f, 1.0f, -1.0f);
  glVertex3f(1.0f, 1.0f, 1.0f);
  glVertex3f(1.0f, -1.0f, 1.0f);
  glVertex3f(1.0f, -1.0f, -1.0f);
glEnd(); // End of drawing color-cube
// Render a pyramid consists of 4 triangles
glLoadIdentity();
                             // Reset the model-view matrix
glTranslatef(-1.5f, 0.0f, -6.0f); // Move left and into the screen
glBegin(GL_TRIANGLES);
                                    // Begin drawing the pyramid with 4 triangles
  // Front
  glColor3f(1.0f, 0.0f, 0.0f);
                                // Red
  glVertex3f( 0.0f, 1.0f, 0.0f);
  glColor3f(0.0f, 1.0f, 0.0f); // Green
  glVertex3f(-1.0f, -1.0f, 1.0f);
```

```
glColor3f(0.0f, 0.0f, 1.0f);
                                 // Blue
   glVertex3f(1.0f, -1.0f, 1.0f);
   // Right
   glColor3f(1.0f, 0.0f, 0.0f);
                                 // Red
   glVertex3f(0.0f, 1.0f, 0.0f);
   glColor3f(0.0f, 0.0f, 1.0f);
                                 // Blue
   glVertex3f(1.0f, -1.0f, 1.0f);
   glColor3f(0.0f, 1.0f, 0.0f); // Green
   glVertex3f(1.0f, -1.0f, -1.0f);
   // Back
   glColor3f(1.0f, 0.0f, 0.0f);
                                 // Red
   glVertex3f(0.0f, 1.0f, 0.0f);
   glColor3f(0.0f, 1.0f, 0.0f);
                                 // Green
   glVertex3f(1.0f, -1.0f, -1.0f);
   glColor3f(0.0f, 0.0f, 1.0f); // Blue
   glVertex3f(-1.0f, -1.0f, -1.0f);
   // Left
   glColor3f(1.0f,0.0f,0.0f);
                                 // Red
   glVertex3f( 0.0f, 1.0f, 0.0f);
   glColor3f(0.0f,0.0f,1.0f);
                                 // Blue
   glVertex3f(-1.0f,-1.0f,-1.0f);
   glColor3f(0.0f,1.0f,0.0f);
                                 // Green
   glVertex3f(-1.0f,-1.0f, 1.0f);
 glEnd(); // Done drawing the pyramid
 glutSwapBuffers(); // Swap the front and back frame buffers (double buffering)
/* Handler for window re-size event. Called back when the window first appears and
  whenever the window is re-sized with its new width and height */
void reshape(GLsizei width, GLsizei height) { // GLsizei for non-negative integer
 // Compute aspect ratio of the new window
```

}

```
if (height == 0) height = 1;
                                      // To prevent divide by 0
 GLfloat aspect = (GLfloat)width / (GLfloat)height;
 // Set the viewport to cover the new window
 glViewport(0, 0, width, height);
 // Set the aspect ratio of the clipping volume to match the viewport
 glMatrixMode(GL PROJECTION); // To operate on the Projection matrix
 glLoadIdentity();
                          // Reset
 // Enable perspective projection with fovy, aspect, zNear and zFar
 gluPerspective(45.0f, aspect, 0.1f, 100.0f);
}
/* Main function: GLUT runs as a console application starting at main() */
int main(int argc, char** argv) {
 glutInit(&argc, argv);
                              // Initialize GLUT
 glutInitDisplayMode(GLUT_DOUBLE); // Enable double buffered mode
 glutInitWindowSize(640, 480); // Set the window's initial width & height
 glutInitWindowPosition(50, 50); // Position the window's initial top-left corner
 glutCreateWindow(title);
                                // Create window with the given title
 glutDisplayFunc(display);
                               // Register callback handler for window re-paint event
 glutReshapeFunc(reshape);
                                 // Register callback handler for window re-size event
 initGL();
                        // Our own OpenGL initialization
 glutMainLoop();
                            // Enter the infinite event-processing loop
 return 0;
```



GLUT Setup - main()

The program contains a initGL(), display() and reshape() functions.

The main() program:

glutInit(&argc, argv);

Initializes the GLUT.

glutInitWindowSize(640, 480);

glutInitWindowPosition(50, 50);

glutCreateWindow(title);

Creates a window with a title, initial width and height positioned at initial top-left corner.

glutDisplayFunc(display);

Registers display() as the re-paint event handler. That is, the graphics sub-system calls back display() when the window first appears and whenever there is a re-paint request.

glutReshapeFunc(reshape);

Registers reshape() as the re-sized event handler. That is, the graphics sub-system calls back reshape() when the window first appears and whenever the window is re-sized.

glutInitDisplayMode(GLUT_DOUBLE);

Enables double buffering. In display(), we use glutSwapBuffers() to signal to the GPU to swap the front-buffer and back-buffer during the next VSync (Vertical Synchronization). initGL();

Invokes the initGL() once to perform all one-time initialization tasks.

glutMainLoop();

Finally, enters the event-processing loop.

One-Time Initialization Operations - initGL()

The initGL() function performs the one-time initialization tasks. It is invoked from main() once (and only once).

glClearColor(0.0f, 0.0f, 0.0f, 1.0f); // Set background color to black and opaque glClearDepth(1.0f); // Set background depth to farthest // In display()

glClear(GL_COLOR_BUFFER_BIT | GL_DEPTH_BUFFER_BIT);

Set the clearing (background) color to black (R=0, G=0, B=0) and opaque (A=1), and the clearing (background) depth to the farthest (Z=1). In display(), we invoke glClear() to clear the color and depth buffer, with the clearing color and depth, before rendering the graphics. (Besides the color buffer and depth buffer, OpenGL also maintains an accumulation buffer and a stencil buffer which shall be discussed later.)

glEnable(GL_DEPTH_TEST); // Enable depth testing for z-culling glDepthFunc(GL_LEQUAL); // Set the type of depth-test

We need to enable depth-test to remove the hidden surface, and set the function used for the depth test.

glShadeModel(GL_SMOOTH); // Enable smooth shading

We enable smooth shading in color transition. The alternative is GL_FLAT. Try it out and see the difference.

glHint(GL_PERSPECTIVE_CORRECTION_HINT, GL_NICEST); // Nice perspective corrections

In graphics rendering, there is often a trade-off between processing speed and visual quality. We can use glHint() to decide on the trade-off. In this case, we ask for the best perspective correction, which may involve more processing. The default is GL_DONT_CARE.

Defining the Color-cube and Pyramid

OpenGL's object is made up of primitives (such as triangle, quad, polygon, point and line). A

primitive is defined via one or more vertices. The color-cube is made up of 6 quads. Each quad is made up of 4 vertices, defined in counter-clockwise (CCW) order, such as the normal vector is pointing out, indicating the front face. All the 4 vertices have the same color. The color-cube is defined in its local space (called model space) with origin at the center of the cube with sides of 2 units.

Similarly, the pyramid is made up of 4 triangles (without the base). Each triangle is made up of 3 vertices, defined in CCW order. The 5 vertices of the pyramid are assigned different colors. The color of the triangles are interpolated (and blend smoothly) from its 3 vertices. Again, the pyramid is defined in its local space with origin at the center of the pyramid.

PRACTICAL SET-15

<u>OEP</u>

```
#include<iostream>
#include<windows.h>
#include<conio.h>
#include<fstream>
#include<string.h>
#include<cstdio>
#include<cstdlib>
#include<iomanip>
using namespace std;
//global variable declaration
int k=7,r=0,flag=0;
COORD coord = \{0, 0\};
void gotoxy(int x, int y)
    COORD coord;
    coord.X = x;
    coord.Y = y;
    SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE), coord);
struct date
    int mm,dd,yy;
};
ofstream fout;
ifstream fin;
class item
    int itemno;
    char name[25];
    date d;
public:
    void add()
        cout<<"\n\n\tItem No: ";</pre>
        cin>>itemno;
        cout<<"\n\n\tName of the item: ";</pre>
        cin>>name;
//gets(name);
        cout<<"\n\n\tManufacturing Date(dd-mm-yy): ";</pre>
```





```
cin>>d.mm>>d.dd>>d.yy;
    void show()
         cout<<"\n\tItem No: ";</pre>
        cout<<itemno;</pre>
         cout<<"\n\n\tName of the item: ";</pre>
         cout<<name;</pre>
         cout<<"\n\n\tDate : ";</pre>
         cout<<d.mm<<"-"<<d.dd<<"-"<<d.yy;</pre>
    void report()
         gotoxy(3,k);
         cout<<itemno;</pre>
         gotoxy(13,k);
        puts(name);
    int retno()
        return(itemno);
};
class amount: public item
    float price,qty,tax,gross,dis,netamt;
public:
    void add();
    void show();
    void report();
    void calculate();
    void pay();
    float retnetamt()
         return(netamt);
} amt;
void amount::add()
    item::add();
    cout<<"\n\n\tPrice: ";</pre>
    cin>>price;
```





```
cout<<"\n\n\tQuantity: ";</pre>
    cin>>qty;
    cout<<"\n\n\tTax percent: ";</pre>
    cin>>tax;
    cout<<"\n\n\tDiscount percent: ";</pre>
    cin>>dis;
    calculate();
    fout.write((char *)&amt,sizeof(amt));
    fout.close();
void amount::calculate()
    gross=price+(price*(tax/100));
    netamt=qty*(gross-(gross*(dis/100)));
void amount::show()
    fin.open("itemstore.dat",ios::binary);
    fin.read((char*)&amt,sizeof(amt));
    item::show();
    cout<<"\n\n\tNet amount: ";</pre>
    cout<<netamt;</pre>
    fin.close();
void amount::report()
    item::report();
    gotoxy(23,k);
    cout<<price;</pre>
    gotoxy(33,k);
    cout<<qty;</pre>
    gotoxy(44,k);
    cout<<tax;</pre>
    gotoxy(52,k);
    cout<<dis;</pre>
    gotoxy(64,k);
    cout<<netamt;</pre>
    k=k+1;
    if(k==50)
        gotoxy(25,50);
        cout<<"PRESS ANY KEY TO CONTINUE...";</pre>
        getch();
        k=7;
        system("cls");
```





```
gotoxy(30,3);
       cout<<" ITEM DETAILS ";</pre>
       gotoxy(3,5);
       cout<<"NUMBER";</pre>
       gotoxy(13,5);
       cout<<"NAME";</pre>
       gotoxy(23,5);
       cout<<"PRICE";</pre>
       gotoxy(33,5);
       cout<<"QUANTITY";</pre>
       gotoxy(44,5);
       cout<<"TAX";</pre>
       gotoxy(52,5);
       cout<<"DEDUCTION";</pre>
       gotoxy(64,5);
       cout<<"NET AMOUNT";</pre>
void amount::pay()
   show();
   cout<<"\n\n\t\t******************************;</pre>
   cout<<"\n\t\t
                               DETAILS
   cout<<"\n\n\t\tPRICE</pre>
                                          :"<<price;
   cout<<"\n\n\t\tQUANTITY</pre>
                                          :"<<qty;
   cout<<"\n\t\tTAX PERCENTAGE
                                         :"<<tax;
   cout<<"\n\t\tDISCOUNT PERCENTAGE</pre>
                                          :"<<dis;
   cout<<"\n\n\t\tNET AMOUNT</pre>
                                          :Rs."<<netamt;
   int main()
   cout.setf(ios::fixed);
   cout.setf(ios::showpoint);
   cout<<setprecision(2);</pre>
   fstream tmp("temp.dat",ios::binary|ios::out);
menu:
   system("cls");
   gotoxy(25,2);
   cout<<"Super Market Billing ";</pre>
   gotoxy(25,3);
   cout<<"=======n\n";
   cout<<"\n\t\t1.Bill Report\n\n";</pre>
```





```
cout<<"\t\t2.Add/Remove/Edit Item\n\n";</pre>
    cout<<"\t\t3.Show Item Details\n\n";</pre>
    cout<<"\t\t4.Exit\n\n";</pre>
    cout<<"\t\tPlease Enter Required Option: ";</pre>
    int ch,ff;
    float gtotal;
    cin>>ch;
    switch(ch)
    case 1:
ss:
         system("cls");
         gotoxy(25,2);
         cout<<"Bill Details";</pre>
         gotoxy(25,3);
         cout<<"==========\n\n";
         cout<<"\n\t\t1.All Items\n\n";</pre>
         cout<<"\t\t2.Back to Main menu\n\n";</pre>
         cout<<"\t\tPlease Enter Required Option: ";</pre>
         int cho;
         cin>>cho;
         if(cho==1)
              system("cls");
              gotoxy(30,3);
              cout<<" BILL DETAILS ";</pre>
              gotoxy(3,5);
              cout<<"ITEM NO";</pre>
              gotoxy(13,5);
              cout<<"NAME";</pre>
              gotoxy(23,5);
              cout<<"PRICE";</pre>
              gotoxy(33,5);
              cout<<"QUANTITY";</pre>
              gotoxy(44,5);
              cout<<"TAX %";</pre>
              gotoxy(52,5);
              cout<<"DISCOUNT %";</pre>
              gotoxy(64,5);
              cout<<"NET AMOUNT";</pre>
              fin.open("itemstore.dat",ios::binary);
              if(!fin)
              {
                  cout<<"\n\nFile Not Found...";</pre>
                  goto menu;
```





```
fin.seekg(0);
             gtotal=0;
             while(!fin.eof())
                 fin.read((char*)&amt,sizeof(amt));
                 if(!fin.eof())
                 {
                     amt.report();
                     gtotal+=amt.retnetamt();
                     ff=0;
                 if(ff!=0) gtotal=0;
             gotoxy(17,k);
             cout<<"\n\n\t\t\tGrand Total="<<gtotal;</pre>
             getch();
             fin.close();
        }
        if(cho==2)
             goto menu;
        goto ss;
    case 2:
db:
        system("cls");
        gotoxy(25,2);
        cout<<"Bill Editor";</pre>
        gotoxy(25,3);
        cout<<"======\n\n";
        cout<<"\n\t\t1.Add Item Details\n\n";</pre>
        cout<<"\t\t2.Edit Item Details\n\n";</pre>
        cout<<"\t\t3.Delete Item Details\n\n";</pre>
        cout<<"\t\t4.Back to Main Menu ";</pre>
        int apc;
        cin>>apc;
        switch(apc)
        case 1:
             fout.open("itemstore.dat",ios::binary|ios::app);
             cout<<"\n\t\tItem Added Successfully!";</pre>
             getch();
             goto db;
        case 2:
```





```
int ino;
    flag=0;
    cout<<"\n\n\tEnter Item Number to be Edited :";</pre>
    cin>>ino;
    fin.open("itemstore.dat",ios::binary);
    fout.open("itemstore.dat",ios::binary|ios::app);
    if(!fin)
        cout<<"\n\nFile Not Found...";</pre>
        goto menu;
    fin.seekg(0);
    r=0;
    while(!fin.eof())
        fin.read((char*)&amt,sizeof(amt));
        if(!fin.eof())
        {
             int x=amt.item::retno();
             if(x==ino)
                 flag=1;
                 fout.seekp(r*sizeof(amt));
                 system("cls");
                 cout<<"\n\t\tCurrent Details are\n";</pre>
                 amt.show();
                 cout<<"\n\n\t\tEnter New Details\n";</pre>
                 amt.add();
                 cout<<"\n\t\tItem Details editted";</pre>
        }
        r++;
    if(flag==0)
        cout<<"\n\t\tItem No does not exist...Please Retry!";</pre>
        getch();
        goto db;
    fin.close();
    getch();
    goto db;
case 3:
    flag=0;
    cout<<"\n\n\tEnter Item Number to be deleted :";</pre>
```





```
cin>>ino;
            fin.open("itemstore.dat",ios::binary);
            if(!fin)
                cout<<"\n\nFile Not Found...";</pre>
                goto menu;
//fstream tmp("temp.dat",ios::binary|ios::out);
            fin.seekg(0);
            while(fin.read((char*)&amt, sizeof(amt)))
                int x=amt.item::retno();
                if(x!=ino)
                     tmp.write((char*)&amt, sizeof(amt));
                else
                     flag=1;
            fin.close();
            tmp.close();
            fout.open("itemstore.dat",ios::trunc|ios::binary);
            fout.seekp(0);
            tmp.open("temp.dat",ios::binary|ios::in);
            if(!tmp)
                cout<<"Error in File";</pre>
                goto db;
            while(tmp.read((char*)&amt,sizeof(amt)))
                fout.write((char*)&amt,sizeof(amt));
            tmp.close();
            fout.close();
            if(flag==1)
                cout<<"\n\t\tItem Succesfully Deleted";</pre>
            else if (flag==0)
                cout<<"\n\t\tItem does not Exist! Please Retry";</pre>
            getch();
            goto db;
        case 4:
            goto menu;
        default:
            cout<<"\n\n\t\tWrong Choice!!! Retry";</pre>
            getch();
            goto db;
```





```
case 3:
   system("cls");
   flag=0;
   int ino;
   cout<<"\n\n\t\tEnter Item Number :";</pre>
   cin>>ino;
   fin.open("itemstore.dat",ios::binary);
   if(!fin)
        cout<<"\n\nFile Not Found...\nProgram Terminated!";</pre>
        goto menu;
   fin.seekg(0);
   while(fin.read((char*)&amt,sizeof(amt)))
        int x=amt.item::retno();
       if(x==ino)
            amt.pay();
           flag=1;
           break;
        }
    }
   if(flag==0)
        cout<<"\n\t\tItem does not exist....Please Retry!";</pre>
   getch();
   fin.close();
   goto menu;
case 4:
   system("cls");
   gotoxy(20,20);
   cout<<"ARE YOU SURE, YOU WANT TO EXIT (Y/N)?";</pre>
   char yn;
   cin>>yn;
   if((yn=='Y')||(yn=='y'))
        gotoxy(12,20);
        system("cls");
        getch();
        exit(0);
    }
   else if((yn=='N')||(yn=='n'))
        goto menu;
   else
```

```
{
    goto menu;
}
default:
    cout<<"\n\n\t\tWrong Choice...Please Retry!";
    getch();
    goto menu;
}
return 0;
}</pre>
```

OUTPUT:

```
Super Market Billing

------

1.Bill Report

2.Add/Remove/Edit Item

3.Show Item Details

4.Exit

Please Enter Required Option: 2
```



Established Under Gujarat Private Universities (Amendment) Act, 2021 (Gujarat Act No. 15 of 2021)



Bill Editor

1.Add Item Details

2.Edit Item Details

3.Delete Item Details

4.Back to Main Menu 1

Item No: 2

Name of the item: Cookies

Manufacturing Date(dd-mm-yy): 22-03-22

Price: 110

Quantity: 25

Tax percent: 9

Discount percent: 5

Item Added Successfully!

Bill Editor

===========

1.Add Item Details

2.Edit Item Details3.Delete Item Details

4.Back to Main Menu 2

Enter Item Number to be Edited :1



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Current Details are

Item No: 1

Name of the item: Fruits

Date : 27--7--22

Net amount: 4873.50

Enter New Details

Item No: 1

Name of the item: Fruits

Manufacturing Date(dd-mm-yy): 25-07-22

Price: 95

Quantity: 50

Tax percent: 13

Discount percent: 5

Item Details editted

Bill Editor

1.Add Item Details

2.Edit Item Details

3.Delete Item Details

4.Back to Main Menu 3

Enter Item Number to be deleted :2

Item Succesfully Deleted



Established Under Gujarat Private Universities (Amendment) Act, 2021 (Gujarat Act No. 15 of 2021)



Super Market Billing

1.Bill Report

2.Add/Remove/Edit Item

3.Show Item Details

4.Exit

Please Enter Required Option: 3

Enter Item Number :1

Item No: 1

Name of the item: Fruits

Date: 27--7--22

Net amount: 4873.50

DETAILS

PRICE :95.00

QUANTITY :50.00 TAX PERCENTAGE :8.00 DISCOUNT PERCENTAGE :5.00

NET AMOUNT :Rs.4873.50

Super Market Billing

1.Bill Report

2.Add/Remove/Edit Item

3.Show Item Details

4.Exit

Please Enter Required Option: 1



Established Under Gujarat Private Universities (Amendment) Act, 2021 (Gujarat Act No. 15 of 2021)



Bill Details

1.All Items

2.Back to Main menu

Please Enter Required Option: 1

BILL DETAILS						
ITEM NO	NAME	PRICE	QUANTITY	TAX %	DISCOUNT %	NET AMOUNT
1	Fruits	95.00	50.00	8.00	5.00	4873.50
1	Fruits	95.00	9.00	8.00	5.00	877.23
1	Fruits	97.00	50.00	10.00	5.00	5068.25
Grand Total=10818.98						

Super Market Billing

- 1.Bill Report
- 2.Add/Remove/Edit Item
- 3.Show Item Details
- 4.Exit

Please Enter Required Option: 4

ARE YOU SURE, YOU WANT TO EXIT (Y/N)?y