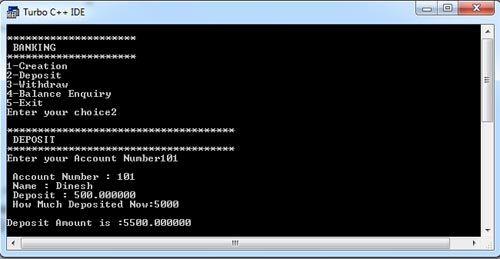
*BANK MANGEMENT SOFTWARE (1)*

*#include<stdio.h>   
#include<conio.h>   
void creation();   
void deposit();   
void withdraw();   
void bal();   
int a=0,i = 101;   
struct bank   
{   
        int no;   
        char name[20];   
        float bal;   
        float dep;   
}s[20];   
        void main()   
       {   
                  int ch;   
                  while(1)   
                        {   
                              clrscr();   
                              printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");   
                              printf("\n BANKING ");   
                              printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");   
                              printf("\n1-Creation");   
                              printf("\n2-Deposit");   
                              printf("\n3-Withdraw");   
                              printf("\n4-Balance Enquiry");   
                              printf("\n5-Exit");   
                              printf("\nEnter your choice");   
                              scanf("%d",&ch);   
                              switch(ch)   
                                       {   
                                              case 1: creation();   
                                                         break;   
                                              case 2: deposit();   
                                                         break;   
                                              case 3: withdraw();   
                                                         break;   
                                              case 4: bal();   
                                                         break;   
                                              case 5: exit(0);   
                                                         defalut: printf("Enter 1-5 only");   
                                                         getch();   
                                        }   
                         }   
        }   
             void creation()   
        {   
                   printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");   
                   printf("\n ACCOUNT CREATION ");   
                   printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");   
                   printf("\nYour Account Number is :%d",i);   
                              s[a].no = i;   
                   printf("\nEnter your Name:");   
                              scanf("%s",s[a].name);   
                   printf("\nYour Deposit is Minimum Rs.500");   
                              s[a].dep=500;   
                              a++;   
                              i++;   
                              getch();   
         }   
              void deposit()   
        {   
                   int no,b=0,m=0;   
                   float aa;   
                   printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");   
                   printf("\n DEPOSIT ");   
                   printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");   
                   printf("\nEnter your Account Number");   
                   scanf("%d",&no);   
                   for(b=0;b<i;b++)   
                       {   
                           if(s[b].no == no)   
                               m = b;   
                       }   
                           if(s[m].no == no)   
                             {   
                                        printf("\n Account Number : %d",s[m].no);   
                                        printf("\n Name : %s",s[m].name);   
                                        printf("\n Deposit : %f",s[m].dep);   
                                        printf("\n How Much Deposited Now:");   
                                        scanf("%f",&aa);   
                                        s[m].dep+=aa;   
                                        printf("\nDeposit Amount is :%f",s[m].dep);   
                                        getch();   
                             }   
                            else   
                             {   
                                       printf("\nACCOUNT NUMBER IS INVALID");   
                                       getch();   
                              }   
         }   
             void withdraw()   
         {   
                    int no,b=0,m=0;   
                    float aa;   
                    printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");   
                    printf("\n WITHDRAW ");   
                    printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");   
                    printf("\nEnter your Account Number");   
                    scanf("%d",&no);   
                    for(b=0;b<i;b++)   
                        {   
                               if(s[b].no == no)   
                                 m = b;   
                        }   
                              if(s[m].no == no)   
                                 {   
                                        printf("\n Account Number : %d",s[m].no);   
                                        printf("\n Name : %s",s[m].name);   
                                        printf("\n Deposit : %f",s[m].dep);   
                                        printf("\n How Much Withdraw Now:");   
                                        scanf("%f",&aa);   
                                        if(s[m].dep<aa+500)   
                                           {   
                                                  printf("\nCANNOT WITHDRAW YOUR ACCOUNT HAS MINIMUM BALANCE");   
                                                  getch();   
                                           }   
                                          else   
                                           {   
                                                  s[m].dep-=aa;   
                                                  printf("\nThe Balance Amount is:%f",s[m].dep);   
                                            }   
                                 }   
                               else   
                                {   
                                      printf("INVALID");   
                                      getch();   
                                }   
                                      getch();   
          }   
                void bal()   
          {   
                  int no,b=0,m=0;   
                  float aa;   
                  printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");   
                  printf("\n BALANCE ENQUIRY ");   
                  printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");   
                  printf("\nEnter your Account Number");   
                  scanf("%d",&no);   
                  for(b=0;b<i;b++)          
                      {   
                           if(s[b].no == no)   
                             m = b;   
                      }   
                           if(s[m].no==no)   
                              {   
                                    printf("\n Account Number : %d",s[m].no);   
                                    printf("\n Name : %s",s[m].name);   
                                    printf("\n Deposit : %f",s[m].dep);   
                                    getch();   
                              }   
                             else   
                             {   
                                    printf("INVALID");   
                                    getch();   
                              }   
            }*



HOTEL MANGEMENT

#include<stdio.h>

#include<stdio.h>

#include<conio.h>

#include<string.h>

#include<process.h>

//Global variables............

int advance[5]={750,500,400,500,750};

int  r\_no[5]={1,2,3,4,5};

int room;

tot[5]={0,0,0,0,0};

int g\_tot=0;

int  r\_charge[5];

char r\_type[5][7];

char r\_cust[5][20]={"N.A","N.A","N.A","N.A","N.A"};

char c\_city[5][20];

char name[30];

int  c\_mem[5];

char c\_nat[5][20];

char r\_avail[5];

int  r\_per[5];

int  no[5];

int year[5];

int month[5];

int day[5];

int i;

//Function prototypes.........

void getavail();

void putavail();

void features();

void allocate();

void putcust();

void restaurant();

void deallocate();

void cancel();

void intro();

void screenheader();

//Function definitions..........

void screenheader()

 {

   printf("\n                       :::::::::::::::::::::::::::::::::::::");

   printf("\n                       ::                                 ::");

   printf("\n                       ::     @@@@@@@@@@@@@@@@@@@@@@@     ::");

   printf("\n                       ::     @                     @     ::");

   printf("\n                       ::     @      WELCOME TO     @     ::");

   printf("\n                       ::     @                     @     ::");

   printf("\n                       ::     @    Lovely  Coding   @     ::");

   printf("\n                       ::     @                     @     ::");

   printf("\n                       ::     @@@@@@@@@@@@@@@@@@@@@@@     ::");

   printf("\n                       ::                                 ::");

   printf("\n                       :::::::::::::::::::::::::::::::::::::\n\n");

 }

void intro()

 {

   printf("\n\t             Near BSF Chowk, G.T. Road, Jalandhar City,\n\t\t\t\t Punjab 144001, INDIA");

   printf("\n\n                              Ph. No.:011-27223959");

   printf("\n\n\n                             WELCOMES YOU..............");

   printf("\n\n\n\tHotel Ganga Inn is one of the newest Hotel in Jalandhar. The Hotel is \t\tequipped with with all the general amenities and facilities that go \t\talong with memorable stay. Set amidst beautifully landscaped gardens, \t\tit proves to be a ideal dream destination for perceptive traveller.");

   printf("\n\n\tThe Hotel have well furnished rooms along with rooms providing pleasent \tviews of the city. The hotel satisfies the needs of business as well \t\tas the leisure traveller. All the rooms at the thotel are furnished \t\tbeautifully. All the rooms are fitted with amenities.");

   printf("\n\n                             AMENITIES .......\n");

   printf("\n\t\t\t1. 100% Power backup.\n");

   printf("\t\t\t2. Automatic lift.\n");

   printf("\t\t\t3. Ample parking space.\n");

   printf("\t\t\t4. Round the clock security.\n");

   printf("\t\t\t5. Running hot and cold water.\n");

   printf("\t\t\t6. Free internet service.\n");

   printf("\t\t\t7. 24 hours room service.\n");

   printf("\t\t\t8. Laundary service.\n");

   printf("\nPress any character to continue:");

   getch();

 }

void getavail()

 {

   for(i=0;i<5;i++)

     {

       if(r\_no[i]==1)

 {

   strcpy(r\_type[i],"Sp Dlx");

   r\_charge[i]=1500;

   if(strcmp(r\_cust[i],"N.A")==0)

     {

       r\_avail[i]='Y';

       r\_per[i]=0;

     }

 }

       else if(r\_no[i]==2)

 {

   strcpy(r\_type[i],"Dlx");

   r\_charge[i]=1000;

   if(strcmp(r\_cust[i],"N.A")==0)

     {

       r\_avail[i]='Y';

       r\_per[i]=0;

     }

 }

       else if(r\_no[i]==3)

 {

   strcpy(r\_type[i],"Gen");

   r\_charge[i]=750;

   if(strcmp(r\_cust[i],"N.A")==0)

     {

       r\_avail[i]='Y';

       r\_per[i]=0;

     }

 }

       else if(r\_no[i]==4)

 {

   strcpy(r\_type[i],"Coupl");

   r\_charge[i]=1000;

   if(strcmp(r\_cust[i],"N.A")==0)

     {

       r\_avail[i]='Y';

       r\_per[i]=0;

     }

 }

       else if(r\_no[i]==5)

 {

   strcpy(r\_type[i],"C Dlx");

   r\_charge[i]=1500;

   if(strcmp(r\_cust[i],"N.A")==0)

     {

       r\_avail[i]='Y';

       r\_per[i]=0;

     }

 }

     }

 }

void putavail()

 {

   clrscr();

   screenheader();

   printf("\n                          ROOM AVAILABILITY");

   printf("\n                         -------------------");

   printf("\nRoom No| Type | Charge | Availability | Cust\_Name | Period |");

   for(i=0;i<5;i++)

     {

       printf("\n%d\t",r\_no[i]);

       cputs(r\_type[i]);

       if(i==0)

 printf("    %d\t%c\t     ",r\_charge[i],r\_avail[i]);

       if((i==1) || (i==2))

 printf("       %d\t   %c\t        ",r\_charge[i],r\_avail[i]);

       if(i==3 || i==4)

 printf("     %d\t %c\t      ",r\_charge[i],r\_avail[i]);

       cputs(r\_cust[i]);

       if((i==1) || (i==2))

 printf("\t %d",r\_per[i]);

       else if((i==3) || (i==4))

 printf("\t       %d",r\_per[i]);

       else

 printf("\t      %d",r\_per[i]);

     }

 }

void features()

 {

   int typ;

   clrscr();

   screenheader();

   printf("\nChoose the room type:\n1. Sp. Delux\n2. Delux");

   printf("\n3. General\n4. Couple\n5. C. Delux\n");

   scanf("%d",&typ);

   if(typ>5)

     {

       printf("\nWrong choice!! Choose a number between 1-5:");

       features();

     }

   switch(typ)

     {

       case 1:clrscr();

      screenheader();

      printf("\n Room number            >>>1");

      printf("\n Advance                >>>750\n\n");

      printf("\n                      FEATURES OF THIS ROOM                       ");

      printf("\n------------------------------------------------------------------");

      printf("\n\n Room Type            >>> Sp.delux");

      printf("\n\n Room charges         >>> Rs.1500 per day");

      printf("\n\n 1. Bed               >>>      2");

      printf("\n\n 2.Capacity           >>>      5");

      printf("\n\n 3.Balcony available     ");

      printf("\n------------------------------------------------------------------");

      printf("\n                     ADDITIONAL FEATURES                        ");

      printf("\n------------------------------------------------------------------");

      printf("\n\n 1.A/C  available ");

      printf("\n\n 2.Geyser available");

      printf("\n\n 3.TV available      ");

      printf("\n------------------------------------------------------------------");

      printf("\n NOTE :- Extra bed will cost Rs.50 per bed ");

      break;

       case 2:clrscr();

      screenheader();

      printf("\n Room number            >>>2\n\n");

      printf("\n Advance                >>>500\n\n");

      printf("\n                      FEATURES OF THIS ROOM                       ");

      printf("\n-------------------------------------------------------------------");

      printf("\n\n Room Type            >>> Delux                                      ");

      printf("\n\n Room charges         >>>Rs.1000 per day");

      printf("\n\n 1. Bed               >>>      2");

      printf("\n\n 2.Capacity           >>>      5");

      printf("\n-------------------------------------------------------------------");

      printf("\n                    ADDITIONAL FEATURES                        ");

      printf("\n-------------------------------------------------------------------");

      printf("\n\n 1.A/C available   ");

      printf("\n\n 2.Geyser available");

      printf("\n\n 3.TV available      ");

      printf("\n-------------------------------------------------------------------");

      printf("\n NOTE :- Extra bed will cost Rs.50 per bed ");

      break;

       case 3:clrscr();

      screenheader();

      printf("\n Room number            >>>3\n\n");

      printf("\n Advance                >>>400\n\n");

      printf("\n                      FEATURES OF THIS ROOM                       ");

      printf("\n-------------------------------------------------------------------");

      printf("\n\n Room Type            >>> General                                    ");

      printf("\n\n Room charges         >>>Rs.750 per day");

      printf("\n\n 1. Bed               >>>      2");

      printf("\n\n 2.Capacity           >>>      5");

      printf("\n-------------------------------------------------------------------");

      printf("\n                    ADDITIONAL FEATURES                        ");

      printf("\n-------------------------------------------------------------------");

      printf("\n\n 1.Geyser available      ");

      printf("\n-------------------------------------------------------------------");

      printf("\n NOTE :- Extra bed will cost Rs.50 per bed ");

      break;

       case 4:clrscr();

      screenheader();

      printf("\n Room number            >>>4\n\n");

      printf("\n Advance                >>>500\n\n");

      printf("\n                      FEATURES OF THIS ROOM                       ");

      printf("\n-------------------------------------------------------------------");

      printf("\n\n Room Type            >>> Couple                                     ");

      printf("\n\n Room charges         >>>Rs.1000 per day");

      printf("\n\n 1. Bed               >>>      1");

      printf("\n\n 2.Capacity           >>>      2");

      printf("\n-------------------------------------------------------------------");

      printf("\n                    ADDITIONAL FEATURES                        ");

      printf("\n-------------------------------------------------------------------");

      printf("\n\n 1.Geyser available");

      printf("\n\n 2.TV available      ");

      printf("\n-------------------------------------------------------------------");

      printf("\n NOTE :- Extra bed will cost Rs.50 per bed ");

      break;

       case 5:clrscr();

      screenheader();

      printf("\n Room number            >>>5\n\n");

      printf("\n Advance                >>>750\n\n");

      printf("\n                      FEATURES OF THIS ROOM                       ");

      printf("\n-------------------------------------------------------------------");

      printf("\n\n Room Type            >>> Couple Delux                                    ");

      printf("\n\n Room charges         >>>Rs.1500 per day");

      printf("\n\n 1. Bed               >>>      1");

      printf("\n\n 2.Capacity           >>>      2");

      printf("\n-------------------------------------------------------------------");

      printf("\n                    ADDITIONAL FEATURES                        ");

      printf("\n-------------------------------------------------------------------");

      printf("\n\n 1.A/C available   ");

      printf("\n\n 2.Geyser available");

      printf("\n\n 3.TV available      ");

      printf("\n-------------------------------------------------------------------");

      printf("\n NOTE :- Extra bed will cost Rs.50 per bed ");

      break;

     }

 }

void allocate()

 {

   clrscr();

   screenheader();

   getavail();

   printf("\n Enter the room number in which you want to stay:");

   scanf("%d",&room);

   if(r\_avail[room-1]=='Y')

     {

       fflush(stdin);

       printf("\n Enter Name of cust living :");

       gets(r\_cust[room-1]);

       printf("\n Enter city name :");

       gets(c\_city[room-1]);

       printf("\n Enter nationality :");

       gets(c\_nat[room-1]);

       printf("\n For how many days cust want the room :");

       scanf("%d",&r\_per[room-1]);

       printf("\n Enter no. of member in your group :");

       scanf("%d",&c\_mem[room-1]);

       if((room==1)||(room==2)||(room==3))

 if((c\_mem[room-1]<1)||(c\_mem[room-1]>5))

   {

     printf("\n %d members cannot be allocated this room.Allowed members are between 1-5.",c\_mem[room-1]);

     getch();

     allocate();

   }

       else if((room==4)||(room==5))

 if((c\_mem[room-1]<1)||(c\_mem[room-1]>2))

   {

     printf("\n %d members cannot be allocated this room.Allowed members are between 1-2.",c\_mem[room-1]);

     getch();

     allocate();

   }

       printf("\n Enter the date of arrival :");

       printf("\n------------------------------");

       printf("\n Year : ");

       scanf("%d",&year[room-1]);

       printf("\n Month :");

       scanf("%d",&month[room-1]);

       printf("\n Day :");

       scanf("%d",&day[room-1]);

       if((year[room-1]>9999)||(month[room-1]>12)||(month[room-1]<1)||(day[room-1]<1)||(((month[room-1]==1)||(month[room-1]==3)||(month[room-1]==5)||(month[room-1]==7)||(month[room-1]==8)||(month[room-1]==10)||(month[room-1]==12))&&(day[room-1]>31))||(((month[room-1]==4)||(month[room-1]==6)||(month[room-1]==9)||(month[room-1]==11))&&(day[room-1]>30))||((month[room-1]==2)&&((year[room-1]%400==0)||((year[room-1]%4==0)&&(year[room-1]%100!=0)))&&(day[room-1]>29))||((month[room-1]==2)&&(year[room-1]%4!=0)&&(day[room-1]>28)))

 {

   delay(200);

   printf("\n\n!!!!!INVALID DATE........");

   getch();

   allocate();

 }

       else

 {

   printf("\n... Room is allocated to ");

   cputs(r\_cust[room-1]);

   printf(" for %d days.",r\_per[room-1]);

   r\_avail[room-1]='N';

   getch();

 }

     }

   else

     {

       printf("\n ERROR : Room cannot be allocated ...");

       printf("\n Room is not available...");

       getch();

     }

 }

void deallocate()

 {

   clrscr();

   screenheader();

   printf("\nEnter the room number:");

   scanf("%d",&room);

   if(r\_cust[room-1]=="N.A")

     {

       printf("\nThe room is empty........");

       getch();

     }

   else

     {

       printf("\nEnter the name of the person staying in the room:");

       fflush(stdin);

       gets(name);

       if(strcmpi(name,r\_cust[room-1])==0)

 {

   printf("\nRoom number %d is deallocated......",room);

   strcpy(r\_cust[room-1],"N.A");

   getch();

 }

       else

 {

   printf("\nInvalid name........");

   getch();

   deallocate();

 }

     }

   g\_tot=(r\_per[room-1]\*r\_charge[room-1])-advance[room-1]+tot[room-1];

   printf("\n\nYour total bill is %d",g\_tot);

   printf("\n\n\nThanks for staying in this hotel.........");

 }

void cancel()

 {

   clrscr();

   screenheader();

   printf("\nEnter the room number:");

   scanf("%d",&room);

   if(r\_cust[room-1]=="N.A")

     {

       printf("\nThe room is empty........");

       getch();

     }

   else

     {

       printf("\nEnter the name of the person staying in the room:");

       fflush(stdin);

       gets(name);

       if(strcmpi(name,r\_cust[room-1])==0)

 {

   printf("\nReservation for room number %d is cancelled......",room);

   strcpy(r\_cust[room-1],"N.A");

   getch();

 }

       else

 {

   printf("\nInvalid name........");

   getch();

   cancel();

 }

     }

   g\_tot=advance[room-1];

   printf("\n\nYour total bill is %d",g\_tot);

 }

void putcust()

 {

   int j;

   clrscr();

   screenheader();

   printf("\nEnter the room number :");

   scanf("%d",&room);

   j=strcmp(r\_cust[room-1],"N.A");

   if(j==0)

     {

       printf("\n Data not available ");

       getch();

     }

   else

     {

       printf("\n Room No        :%d",r\_no[room-1]);

       printf("\n Customer Name  :");

       cputs(r\_cust[room-1]);

       printf("\n Period         :%d",r\_per[room-1]);

       printf("\n City           :");

       cputs(c\_city[room-1]);

       printf("\n Nationality    :");

       cputs(c\_nat[room-1]);

       printf("\n No of member   :%d",c\_mem[room-1]);

       printf("\n Arrival Date   :%d/%d/%d",day[room-1],month[room-1],year[room-1]);

       getch();

     }

 }

void restaurant()

 {

   int count=0,z=0,fc[113],answ;

   char ans;

   int price[113]={245,245,245,245,240,240,240,240,235,235,250,235,235,220,

   215,230,215,240,250,250,250,250,250,250,250,255,245,245,245,245,250,240,

   240,360,290,360,290,370,295,360,290,360,290,250,360,290,360,290,250,370,

   290,360,290,250,250,280,245,290,235,265,240,290,300,256,240,265,270,255,

   255,240,240,235,220,25,30,25,30,35,35,25,30,35,25,35,25,25,30,100,105,105,

   100,105,100,105,125,105,105,100,105,110,115,100,100,100,105,105,105,105,

   125,105,120,120,100};

   char food[113][30]={"SHAHI PANEER","KADAI PANEER","CHEESE KORMA",

   "MALAI KOFTA","MATAR PANEER","PALAK PANEER","MIX VEG.","ALOO GOBI",

   "ALOO JEERA","CHANA MASALA","MATAR MUSHROOM","RAJMA MAKHANI","DAL MAKHANI",

   "MIXED RAITA","BUNDI RAITA","PINEAPPLE RAITA","SALAD(GREEN)","DUM ALOO",

   "MUSHROOM PANEER","MUTTON MASALA","MUTTON MUGHLAI","MUTTON KORMA",

   "MUTTON DO PYAZA","MUTTON SAGH","MUTTON DAHI","MUTTON ROGAN JOSH",

   "MUTTON CURRY","KADAI MUTTON","KEEMA LEVER","KEEMA MATAR","KEEMA EGG",

   "BRAIN CURRY","EGG CURRY","BUTTER CHICKEN","BUTTER CHICKEN(1/2)",

   "KADAI CHICKEN","KADAI CHICKEN(1/2)","BUTTER CHICKEN(BL)",

   "BUTTER CHICKEN(BL)(1/2)","CHICKEN MUGHLAI","CHICKEN MUGHLAI(1/2)",

   "CHICKEN MASALA","CHICKEN MASALA(1/2)","CHICKEN MASALA(1/4)",

   "CHICKEN SAGH","CHICKEN SAGH(1/2)","CHICKEN DAHI","CHICKEN DAHI(1/2)",

   "CHICKEN DAHI(1/4)","CHICKEN KORMA","CHICKEN KORMA(1/2)",

   "CHICKEN DO PYAZA","CHICKEN DO PYAZA(1/2)","FISH CURRY","CHICKEN CURRY",

   "CHICKEN CURRY(1/2)","CHICKEN CURRY(1/4)","CHILLI CHICKEN","TANDOORI ALOO",

   "CHICKEN TIKKA","SEEKH KABAB","FISH TIKKA","CHICKEN TANDOORI",

   "CHICKEN TANDOORI(1/2)","PANEER TIKKA","CHICKEN SEEKH KABAB",

   "CHICKEN HARA KABAB","CHICKEN BIRYANI","MUTTON BIRYANI","PANEER PULAO",

   "VEG.PULAO","JEERA RICE","STEAMED RICE","RUMALI ROTI","ROTI","NAN",

   "ALOO NAN","PANEER NAN","KEEMA NAN","PARANTHA","ALOO PARANTHA",

   "PANEER PARANTHA","PUDINA PARANTHA","BUTTER NAN","LACHCHA PARANTHA",

   "MISSI ROTI","KHASTA ROTI","VEG.BURGER","PANEER BURGER","CHEESE SANDWICH",

   "VEG.PATTI","CHICKEN PATTI","TEA","COFFEE","COLD COFFEE","PINEAPPLE",

   "STRAWBERRY","CHOCOLATE","BLACK FOREST","DOUBLE STORIED","TRIPLE STORIED",

   "SOFT CONE","VANILLA","STRAWBERRY","CHOCOLATE","CHOCO CHIPS","MANGO",

   "TUTTI FRUITY","LICHI","PISTA BADAM","CHOCOLATE PISTA BADAM","CHOCO DIP",

   "CHOCOLATE LICHI"};

   clrscr();

   screenheader();

   printf("\n                        \*\*\*\*\*\*\*\*\*");

   printf("\n                        MENU CARD");

   printf("\n                        \*\*\*\*\*\*\*\*\*");

   printf("\n\n                        VEGETARIAN");

   for(i=0;i<113;count++,i++)

     {

       gotoxy(17,count+20);

       printf("%d",i+1);

       gotoxy(30,count+20);

       cputs(food[i]);

       gotoxy(55,count+20);

       printf("%d",price[i]);

       if(count==17)

 {

   count=0;

   printf("\n                              PRESS ANY KEY TO CONTINUE");

   getch();

   clrscr();

   screenheader();

 }

       if(i==18)

 {

   printf("\n\n     MUTTON\n");

   count +=3;

 }

       if(i==32)

 {

   printf("\n\n     CHICKEN\n");

   count +=3;

 }

       if(i==57)

 {

   printf("\n\n     BAR-BE-QUE\n");

   count +=3;

 }

       if(i==72)

 {

   printf("\n\n     ROTI-NAN-PARANTHA\n");

   count +=3;

 }

       if(i==91)

 {

   printf("\n\n     BEVERAGES\n");

   count +=3;

 }

       if(i==100)

 {

   printf("\n\n     ICE-CREAMS\n");

   count +=3;

 }

     }

   getch();

   clrscr();

   screenheader();

   printf("\n\nPRESS 0 TO GO BACK TO MENU CARD\nPRESS 1 TO CONTINUE ");

   scanf("%d",&answ);

   switch(answ)

     {

       case 0:restaurant();

      break;

       case 1 :clrscr();

       do

 {

   printf("ENTER THE FOOD CODE YOU WANT TO HAVE :: ");

   scanf("%d",&fc[z]);

   z++;

   puts("DO YOU WANT MORE(Y/N) ::");

   fflush(stdin);

   scanf("%c",&ans);

 }while ((ans=='y')||(ans=='Y'));

       printf("\nEnter your room number:");

       scanf("%d",&room);

       printf("\nEnter your name:");

       fflush(stdin);

       gets(name);

       if(strcmpi(name,r\_cust[room-1])!=0)

 {

   printf("\nWrong name...:");

   getch();

   restaurant();

 }

       getch();

       clrscr();

       screenheader();

       for(i=0;i<z;i++)

 {

   cputs(food[fc[i]-1]);

   printf("\t\t\t%d\n",price[fc[i]-1]);

   tot[room-1] +=price[fc[i]-1];

 }

       printf("TOTAL\t\t\t\t%d",tot[room-1]);

       break;

       default:printf("\nWrong choice entered!!!");

       getch();

       restaurant();

     }

 }

void main()

 {

   char ans;

   int ch;

   clrscr();

   screenheader();

   intro();

   do

     {

       clrscr();

       screenheader();

       printf("\n\n\n                      Choose a category:\n");

       printf("                        1. Get availability\n");

       printf("                     2. Features of room\n");

       printf("                        3. Room allocation\n");

       printf("          4. Show customer details\n");

       printf("          5. Restaurant\n");

       printf("                        6. Cancellation\n");

       printf("                        7. Room Deallocation\n");

       printf("                 8. Exit\n");

       scanf("%d",&ch);

       switch(ch)

  {

    case 1:getavail();

   putavail();

   break;

    case 2:features();

   break;

    case 3:allocate();

   break;

    case 4:putcust();

   break;

    case 5:restaurant();

   break;

    case 6:cancel();

   break;

    case 7:deallocate();

   break;

    case 8:exit(0);

    default:printf("\n\n\nWrong choice!!!!\n\nPlease choose 1-6");

    getch();

  }

printf("\n\nDo you want to continue:");

fflush(stdin);

scanf("%c",&ans);

     }while(ans=='y'||ans=='Y');

 }

SCREENSHOTS









Employ record system

/\*\*

\*  A menu-driven program for elementary database management

\*  @author: Bibek Subedi

\*  @language: C

\*  This program uses file handling in Binary mode

\*/

/// List of library functions

#include <stdio.h> ///for input output functions like printf, scanf

#include <stdlib.h>

#include <string.h>  ///string operations

// Copied from

// <https://stackoverflow.com/questions/35103745/read-a-string-as-an-input-using-scanf>

void flush()

{

    int c;

    while ((c = getchar()) != '\n' && c != EOF);

}

/\*\* Main function started \*/

int main(){

    FILE \*fp, \*ft; /// file pointers

    char another, choice;

    /\*\* structure that represent a employee \*/

    struct emp{

        char name[40]; ///name of employee

        int age; /// age of employee

        float bs; /// basic salary of employee

    };

    struct emp e; /// structure variable creation

    char empname[40]; /// string to store name of the employee

    long int recsize; /// size of each record of employee

    /\*\* open the file in binary read and write mode

    \* if the file EMP.DAT already exists then it open that file in read write mode

    \* if the file doesn't exit it simply create a new copy

    \*/

    fp = fopen("EMP.DAT","rb+");

    if(fp == NULL){

        fp = fopen("EMP.DAT","wb+");

        if(fp == NULL){

            printf("Connot open file");

            exit(1);

        }

    }

    /// sizeo of each record i.e. size of structure variable e

    recsize = sizeof(e);

    /// infinite loop continues untile the break statement encounter

    while(1){

        printf("1. Add Record\n"); /// option for add record

        printf("2. List Records\n"); /// option for showing existing record

        printf("3. Modify Records\n"); /// option for editing record

        printf("4. Delete Records\n"); /// option for deleting record

        printf("5. Exit\n"); /// exit from the program

        printf("Your Choice: "); /// enter the choice 1, 2, 3, 4, 5

        fflush(stdin); /// flush the input buffer

        scanf("\n%c", &choice); /// get the input from keyboard

        switch(choice){

            case '1':  /// if user press 1

                fseek(fp,0,SEEK\_END); /// search the file and move cursor to end of the file

                                        /// here 0 indicates moving 0 distance from the end of the file

                another = 'y';

                while(another == 'y'){ /// if user want to add another record

                    flush();

                    printf("\nEnter name: ");

                    fgets(e.name, 40, stdin);

                    printf("\nEnter age: ");

                    scanf("%d", &e.age);

                    printf("\nEnter basic salary: ");

                    scanf("%f", &e.bs);

                    fwrite(&e,recsize,1,fp); /// write the record in the file

                    printf("\nAdd another record(y/n) ");

                    fflush(stdin);

                    scanf("\n%c", &another);

                }

                break;

            case '2':

                rewind(fp); ///this moves file cursor to start of the file

                while(fread(&e,recsize,1,fp)==1){ /// read the file and fetch the record one record per fetch

                    printf("\n%s %d %.2f\n",e.name,e.age,e.bs); /// print the name, age and basic salary

                }

                break;

            case '3':  /// if user press 3 then do editing existing record

                another = 'y';

                while(another == 'y'){

                    printf("Enter the employee name to modify: ");

                    scanf("%s", empname);

                    rewind(fp);

                    while(fread(&e,recsize,1,fp)==1){ /// fetch all record from file

                        if(strcmp(e.name,empname) == 0){ ///if entered name matches with that in file

                            printf("\nEnter new name,age and bs: ");

                            scanf("%s%d%f",e.name,&e.age,&e.bs);

                            fseek(fp,-recsize,SEEK\_CUR); /// move the cursor 1 step back from current position

                            fwrite(&e,recsize,1,fp); /// override the record

                            break;

                        }

                    }

                    printf("\nModify another record(y/n)");

                    fflush(stdin);

                    scanf("\n%c", &another);

                }

                break;

            case '4':

                another = 'y';

                while(another == 'y'){

                    flush();

                    printf("\nEnter name of employee to delete: ");

                    fgets(empname,40, stdin);

                    ft = fopen("Temp.dat","wb");  /// create a intermediate file for temporary storage

                    rewind(fp); /// move record to starting of file

                    while(fread(&e,recsize,1,fp) == 1){ /// read all records from file

                        if(strcmp(e.name,empname) != 0){ /// if the entered record match

                            fwrite(&e,recsize,1,ft); /// move all records except the one that is to be deleted to temp file

                        }

                    }

                    fclose(fp);

                    fclose(ft);

                    remove("EMP.DAT"); /// remove the orginal file

                    rename("Temp.dat","EMP.DAT"); /// rename the temp file to original file name

                    fp = fopen("EMP.DAT", "rb+");

                    printf("Delete another record(y/n)");

                    fflush(stdin);

                    scanf("\n%c", &another);

                }

                break;

            case '5':

                fclose(fp);  /// close the file

                exit(0); /// exit from the program

        }

    }

    return 0;

}

Library management

#include <stdio .h="">

#include <stdlib .h="">

#include <string .h="">

// Copied from

// <https://stackoverflow.com/questions/35103745/read-a-string-as-an-input-using-scanf>

void flush()

{

    int c;

    while ((c = getchar()) != '\n' &amp;&amp; c != EOF);

}

typedef struct {

 char username[15];

 char password[15];

} User;

typedef struct {

 int id; // must be unique

 char title[50];

 char author[50]; // if more than two, separate using ,(COMMA)

 char ISBN[50];

 char category[50];

 char publication[50];

 char description[255];

 int taken;

} Book;

int main(){

 char option, admin\_option, username[15], password[15], edit\_option;

 int first\_time, c, i, j, id, found;

 FILE \*f;

 User user;

 Book book;

 f = fopen("librarian.check", "r");

 if (f == NULL) {

  fclose(f);

  f = fopen("librarian.check", "w");

  fputc(1, f);

  fclose(f);

 } else {

  fclose(f);

 }

 f = fopen("id.check", "r");

 if (f == NULL) {

  fclose(f);

  f = fopen("id.check", "w");

  fputc(0, f);

  fclose(f);

 } else {

  fclose(f);

 }

 printf("Log in as \n");

 printf("1:  Librarian\n");

 printf("2: Student\n");

 printf("3: Exit\n");

 printf("Enter your choice: ");

 scanf("%c", &amp;option);

 switch(option) {

  case '1':

  f = fopen("librarian.check", "r");

  if (f == NULL) {

   printf("Couldn't read file\n");

   exit(0);

  } else {

   first\_time = fgetc(f);

   if (first\_time == 1) {

    fclose(f);

    flush();

    printf("Provide username and password to setup\n");

    printf("Username (14 characters max): ");

    fgets(user.username, 15, stdin);

    printf("Password (14 characters max): ");

    fgets(user.password, 15, stdin);

    // write this credential to file

    f = fopen("credential.bin", "wb");

    if (f == NULL) {

     printf("Someting went wrong!!\n");

     exit(0);

    }

    fwrite(&amp;user, sizeof(User), 1, f);

    fclose(f);

    printf("Exit and login again to continue\n");

    f = fopen("librarian.check", "w");

    fputc(0, f);

    fclose(f);

   } else {

    fclose(f);

    flush();

    printf("Provide credential to login\n");

    printf("Username: ");

    fgets(username, 15, stdin);

    printf("Password: ");

    fgets(password, 15, stdin);

    // read the credential from file

    f = fopen("credential.bin", "rb");

    if (f == NULL) {

     printf("Someting went wrong!!\n");

     exit(0);

    }

    fread(&amp;user, sizeof(User), 1, f);

    if (strcmp(username,user.username) != 0 || strcmp(password, user.password) != 0) {

     printf("Username or password invalid\n");

     exit(0);

    }

    printf("Login Successful!!\n");

    printf("1: Add Book\n");

    printf("2: Search Book\n");

    printf("3: Edit Book\n");

    printf("4: Delete Book\n");

    printf("4: Moderate Student Request\n");

    printf("Enter your choice: ");

    scanf("%c", &amp;admin\_option);

    switch(admin\_option) {

     case '1':

     flush();

     printf("Provide the following information\n");

     printf("Title: ");

     fgets(book.title, 50, stdin);

     printf("Author: ");

     fgets(book.author, 50, stdin);

     printf("ISBN: ");

     fgets(book.ISBN, 50, stdin);

     printf("Category: ");

     fgets(book.category, 50, stdin);

     printf("Publication: ");

     fgets(book.publication, 50, stdin);

     printf("Description: ");

     fgets(book.description, 50, stdin);

     book.taken = 0;

     // increment ID

     f = fopen("id.check", "r");

     if (f == NULL) {

      printf("Someting went wrong\n");

      exit(1);

     }

     id = fgetc(f);

     fclose(f);

     book.id = id;

     // save the record

     f = fopen("book.record", "a");

     fwrite(&amp;book, sizeof(Book), 1, f);

     fclose(f);

     id++;

     f = fopen("id.check", "w");

     fputc(id, f);

     fclose(f);

     printf("Book insertion Successful!!\n");

     break;

     case '2':

     printf("Enter the book id to search: ");

     scanf("%d", &amp;id);

     // search in the database

     f = fopen("book.record", "rb");

     found = 0;

     i = 0;

     while(fread(&amp;book, sizeof(Book), 1, f)) {

      if (book.id == id) {

       // matched

       found = 1;

       printf("Book Found!!\n");

       printf("Title: %s", book.title);

       printf("Author: %s", book.author);

       printf("ISBN: %s", book.ISBN);

       printf("Category: %s", book.category);

       printf("Publication: %s", book.publication);

       printf("Description: %s", book.description);

       break;

      }

      i++;

     }

     if (found == 0) {

      printf("Sorry!! The book is not in the database\n");

     }

     fclose(f);

     break;

     case '3':

     printf("Enter the book id to edit: ");

     scanf("%d", &amp;id);

     f = fopen("book.record", "rb+");

     found = 0;

     while(fread(&amp;book, sizeof(Book), 1, f)) {

      if (book.id == id) {

       // matched

       found = 1;

       break;

      }

     }

     if (found == 0) {

      printf("Sorry!! The book is not in the database\n");

     } else {

      printf("What field do you want to edit:\n");

      printf("1. Title\n");

      printf("2. Author\n");

      printf("3. ISBN\n");

      printf("4. Category\n");

      printf("5. Publication\n");

      printf("6. Description\n");

      printf("Enter your choice: ");

      scanf("\n%c", &amp;edit\_option);

      switch(edit\_option) {

       case '1':

       flush();

       printf("Enter new title: ");

       fgets(book.title, 50, stdin);

       break;

       case '2':

       printf("Enter new author: ");

       fgets(book.author, 50, stdin);

       break;

       case '3':

       printf("Enter new ISBN: ");

       fgets(book.ISBN, 50, stdin);

       break;

       case '4':

       printf("Enter new Category: ");

       fgets(book.category, 50, stdin);

       break;

       case '5':

       printf("Enter new Publication: ");

       fgets(book.publication, 50, stdin);

       break;

       printf("Enter new Description: ");

       fgets(book.description, 255, stdin);

       break;

       default:

       printf("Enter 1 to 6\n");

       break;

      }

      fseek(f, i, SEEK\_SET);

      fwrite(&amp;book, sizeof(Book), 1, f);

      fclose(f);

      printf("Book record modified in the database!!\n");

     }

     break;

     case '4':

     printf("Enter the book id to Delete: ");

     scanf("%d", &amp;id);

     f = fopen("book.record", "rb");

     found = 0;

     while(fread(&amp;book, sizeof(Book), 1, f)) {

      if (book.id == id) {

       // matched

       found = 1;

       break;

      }

     }

     fclose(f);

     if (found == 0) {

      printf("Sorry!! The book is not in the database\n");

     } else {

      // create a temporary file

      FILE \* temp;

      temp = fopen("book.temp", "a");

      if (temp == NULL) {

       printf("Something went wrong\n");

       exit(1);

      }

      f = fopen("book.record", "rb");

      // copy all the items except item to delete

      // to temporary file

      while(fread(&amp;book, sizeof(Book), 1, f)) {

       if (book.id != id)

        fwrite(&amp;book, sizeof(Book), 1, temp);

      }

      fclose(f);

      fclose(temp);

      // delete original file

      remove("book.record");

      // rename the temporary file

      rename("book.temp", "book.record");

      printf("Book record deleted from the database!!\n");

     }

     break;

     default:

     printf("Enter only 1 - 4\n");

     break;

    }

   }

  }

  break;

  case '2':

  printf("Enter the book id to search: ");

  scanf("%d", &amp;id);

  // search in the database

  f = fopen("book.record", "rb");

  found = 0;

  i = 0;

  while(fread(&amp;book, sizeof(Book), 1, f)) {

   if (book.id == id) {

    // matched

    found = 1;

    printf("Book Found!!\n");

    printf("Title: %s", book.title);

    printf("Author: %s", book.author);

    printf("ISBN: %s", book.ISBN);

    printf("Category: %s", book.category);

    printf("Publication: %s", book.publication);

    printf("Description: %s", book.description);

    printf("Status: ");

    if (book.taken == 1) {

     printf("Not Available");

    } else {

     printf("Available\n");

    }

    break;

   }

   i++;

  }

  if (found == 0) {

   printf("Sorry!! The book is not in the database\n");

  }

  fclose(f);

  break;

  case '3':

  printf("Bye!!\n");

  exit(0);

  default:

  printf("Enter either 1 or 2 only\n");

  break;

 }

 return 0;

}

Calendar application

#include <stdio.h>

#include <stdlib.h>

int isLeapYear( int year );        /\* True if leap year \*/

int leapYears( int year );         /\* The number of leap year \*/

int todayOf( int y, int m, int d); /\* The number of days since the beginning of the year \*/

long days( int y, int m, int d);   /\* Total number of days \*/

void calendar(int y, int m);       /\* display calendar at m y \*/

int getDayNumber(int d,int m,int y);

char \*getName(int day);

// Copied from

// <https://stackoverflow.com/questions/35103745/read-a-string-as-an-input-using-scanf>

void flush()

{

    int c;

    while ((c = getchar()) != '\n' && c != EOF);

}

typedef struct {

  int day;

  int month;

  int year;

  char note[255];

} Note;

int main(int argc, char\* argv[]){

    int year,month, day;

    char choice;

    Note note;

    FILE \*fp;

    fp = fopen("note.bin", "r");

    if (fp == NULL) {

      fp = fopen("note.bin", "w");

    }

    fclose(fp);

    while(1) {

      printf("1. Find the day\n");

      printf("2. Print calendar of a month\n");

      printf("3. Add Note\n");

      printf("4. Exit\n");

      printf("Enter your choice: ");

      scanf("\n%c", &choice);

      switch(choice) {

        case '1':

        printf("Enter the day, month and year: ");

        scanf("%d %d %d", &day, &month, &year);

        printf("The day is : %s\n", getName(getDayNumber(day, month, year)));

        break;

        case '2':

        printf("Enter the month and year: ");

        scanf("%d %d", &month, &year);

        printf("Please enter 's' to see the notes\n Press any other key to continue\n");

        calendar(year, month);

        break;

        case '3':

        printf("Enter the day, month and year: ");

        scanf("%d %d %d", &note.day, &note.month, &note.year);

        flush();

        printf("Enter the note: ");

        fgets(note.note, 255, stdin);

        fp = fopen("note.bin", "a+");

        if (fp == NULL) {

          printf("File note.bin can not be opened\n");

          exit(1);

        }

        fwrite(&note, sizeof(Note), 1, fp);

        printf("Note added sucessfully\n");

        fclose(fp);

        break;

        case '4':

        printf("Bye!!");

        exit(0);

        break;

        default:

        printf("Not a valid option\n");

        break;

      }

    }

    return 0;

}

int isLeapYear( int y ){

    return(y % 400 == 0) || ((y % 4 == 0) && (y % 100 != 0));

}

int leapYears( int y ){

    return y/4 - y/100 + y/400;

}

int todayOf( int y, int m, int d) {

    static int DayOfMonth[] =

        { -1,0,31,59,90,120,151,181,212,243,273,304,334};

    return DayOfMonth[m] + d + ((m>2 && isLeapYear(y))? 1 : 0);

}

long days( int y, int m, int d){

    int lastYear;

    lastYear = y - 1;

    return 365L \* lastYear + leapYears(lastYear) + todayOf(y,m,d);

}

void calendar(int y, int m){

    FILE \*fp;

    Note\* notes, note;

    int len, j, hasNote = 0;

    char choice;

    const char \*NameOfMonth[] = { NULL/\*dummp\*/,

        "January", "February", "March", "April", "May", "June",

        "July", "August", "September", "October", "November", "December"

    };

    char Week[] = "Su   Mo   Tu   We   Th   Fr   Sa";

    int DayOfMonth[] =

        { -1,31,28,31,30,31,30,31,31,30,31,30,31 };

    int weekOfTopDay;

    int i,day;

    weekOfTopDay = days(y, m, 1) % 7;

    fp = fopen("note.bin", "rb");

    if (fp == NULL) {

      printf("Couldn't read notes\n");

    }

    len = 0;

    while(fread(&note, sizeof(Note), 1, fp)) {

      if (note.year == y && note.month == m) {

        len++;

      }

    }

    rewind(fp);

    j = 0;

    notes = (Note\*) malloc (sizeof(Note) \* len);

    while(fread(&note, sizeof(Note), 1, fp)) {

      if (note.year == y && note.month == m) {

        notes[j] = note;

        j++;

      }

    }

    fclose(fp);

    if(isLeapYear(y))

        DayOfMonth[2] = 29;

    printf("\n     %s %d\n%s\n", NameOfMonth[m], y, Week);

    for(i=0;i<weekOfTopDay;i++)

        printf("   ");

    for(i=weekOfTopDay,day=1;day <= DayOfMonth[m];i++,day++){

        hasNote = 0;

        for (j = 0; j < len; j++) {

          if (notes[j].day == day) {

            printf("|%2d| ",day);

            hasNote = 1;

            break;

          }

        }

        if (hasNote == 0) {

          printf("%2d   ",day);

        }

        if(i % 7 == 6)

            printf("\n");

    }

    printf("\n");

    scanf("\n%c", &choice);

    if (choice == 's') {

      printf("Here are list of notes for %d %d\n", m, y);

      for (j = 0; j < len; j++) {

        printf("%d: %s\n", notes[j].day, notes[j].note);

      }

    } else {

      return;

    }

}

int getDayNumber(int d, int m, int y){ //retuns the day number

    static int t[] = {0, 3, 2, 5, 0, 3, 5, 1, 4, 6, 2, 4};

    y -= m < 3;

    return (y + y/4 - y/100 + y/400 + t[m-1] + d) % 7;

}

char \*getName(int day){ //returns the name of the day

   switch(day){

      case 0 :return("Sunday");

      case 1 :return("Monday");

      case 2 :return("Tuesday");

      case 3 :return("Wednesday");

      case 4 :return("Thursday");

      case 5 :return("Friday");

      case 6 :return("Saturday");

      default:return("Error: Invalid Argument Passed");

   }

}

Student record system

#include <stdio.h>

#include <string.h>

#include <conio.h>

#include <stdlib.h>

#include <windows.h>

struct student{

    char ID[15];

    char name[20];

    char add[20];

    char parname[20];

    int Class;

    long unsigned int phone\_no;

};

struct student stu;

///This will set the forground color for printing in a console window.

void SetColor(int ForgC)

{

     WORD wColor;

     ///We will need this handle to get the current background attribute

     HANDLE hStdOut = GetStdHandle(STD\_OUTPUT\_HANDLE);

     CONSOLE\_SCREEN\_BUFFER\_INFO csbi;

     ///We use csbi for the wAttributes word.

     if(GetConsoleScreenBufferInfo(hStdOut, &csbi))

     {

        ///Mask out all but the background attribute, and add in the forgournd color

          wColor = (csbi.wAttributes & 0xF0) + (ForgC & 0x0F);

          SetConsoleTextAttribute(hStdOut, wColor);

     }

     return;

}

void ClearConsoleToColors(int ForgC, int BackC)

{

     WORD wColor = ((BackC & 0x0F) << 4) + (ForgC & 0x0F);

     ///Get the handle to the current output buffer...

     HANDLE hStdOut = GetStdHandle(STD\_OUTPUT\_HANDLE);

     ///This is used to reset the carat/cursor to the top left.

     COORD coord = {0, 0};

     ///A return value... indicating how many chars were written

     ///   not used but we need to capture this since it will be

     ///   written anyway (passing NULL causes an access violation).

     DWORD count;

     ///This is a structure containing all of the console info

     /// it is used here to find the size of the console.

     CONSOLE\_SCREEN\_BUFFER\_INFO csbi;

     ///Here we will set the current color

     SetConsoleTextAttribute(hStdOut, wColor);

     if(GetConsoleScreenBufferInfo(hStdOut, &csbi))

     {

          ///This fills the buffer with a given character (in this case 32=space).

          FillConsoleOutputCharacter(hStdOut, (TCHAR) 32, csbi.dwSize.X \* csbi.dwSize.Y, coord, &count);

          FillConsoleOutputAttribute(hStdOut, csbi.wAttributes, csbi.dwSize.X \* csbi.dwSize.Y, coord, &count );

          ///This will set our cursor position for the next print statement.

          SetConsoleCursorPosition(hStdOut, coord);

     }

     return;

}

void SetColorAndBackground(int ForgC, int BackC)

{

     WORD wColor = ((BackC & 0x0F) << 4) + (ForgC & 0x0F);;

     SetConsoleTextAttribute(GetStdHandle(STD\_OUTPUT\_HANDLE), wColor);

     return;

}

COORD coord = {0,0}; ///set the cordinate to 0, 0 (top-left corner of window);

void gotoxy(int x, int y){

    coord.X = x; coord.Y = y; /// X and Y coordinates

    SetConsoleCursorPosition(GetStdHandle(STD\_OUTPUT\_HANDLE), coord);

}

void drawRectangle(){

    int i, j;

    gotoxy(0,0);

    printf("%c",201);

    for(i = 1; i < 78; i++){

        gotoxy(i, 0);

        printf("%c",205);

    }

    gotoxy(78,0);

    printf("%c",187);

    for(i = 1; i < 25; i++){

        gotoxy(78, i);

        if(i == 6){

            printf("%c",185);

        }else{

            printf("%c",186);

        }

    }

    gotoxy(78, 25);

    printf("%c",188);

    for(i = 77; i > 0; i--){

        gotoxy(i,25);

        if(i == 35){

            printf("%c",202);

        }else{

            printf("%c",205);

        }

    }

    gotoxy(0,25);

    printf("%c",200);

    for(i = 24; i > 0; i--){

        gotoxy(0,i);

        if(i == 6){

            printf("%c",204);

        }else{

            printf("%c",186);

        }

    }

    for(i = 1; i < 78; i++){

        gotoxy(i,6);

        if(i == 35){

            printf("%c",203);

        }else{

            printf("%c",205);

        }

    }

    for(i = 7; i < 25; i++){

        gotoxy(35,i);

        printf("%c",186);

    }

}

void clearWindow(){

    int i,j;

    for(i = 37; i < 78; i++){

        for(j = 7; j < 25; j++){

            gotoxy(i,j);printf(" ");

        }

    }

    return;

}

void window(){

    drawRectangle();

    gotoxy(28,2);

    SetColor(35);

    printf("STUDENT RECORD SYSTEM");

    gotoxy(20,3);

    printf("Tribhuvan University, Kathmandu, Nepal");

    gotoxy(31,4);

    printf("Estd.: 2016 B.S.");

    gotoxy(25,24);

    SetColor(17);

}

void get\_password(char\* pass)

{

    char temp\_passP[25];

    int i=0;

     while(1)

    {

            temp\_passP[i]=getch();

            if(temp\_passP[i]==13){break;}

            else if(temp\_passP[i]==8)

            {

                if(i!=0) {

                printf("\b \b");

                i--;

                } else {printf("\a");}

            }

            else

            {

                printf("\*");

                \*(pass+i) = temp\_passP[i];

                i++;

            }

             \*(pass+i)='\0';

     }

}

void use\_pass\_field(){

    int x = 15, y = 16;

    int use;

    char pass[10];

    SetColor(10);

    gotoxy(15,12);printf("The database is password protected.");

    gotoxy(15,13);printf(" Enter Valid username and password");

    SetColor(17);

    gotoxy(20,x);printf("USERNAME:- ");

    gotoxy(20,y);printf("PASSWORD:- ");

    gotoxy(34,x);scanf("%d",use);

    gotoxy(34,y);get\_password(pass);

}

void print\_heading(const char st[]){

    SetColorAndBackground(31,28);

    gotoxy(45,8);printf("SRS : %s",st);

    SetColorAndBackground(17,15);

}

int conf\_record(char id[]){

   // left for you

   //it checks whether the entered id for

   //new record is already in the database.

}

void add\_student(){

    clearWindow();

    print\_heading("Add Record");

    int print = 37;

    FILE \*fp;

    fp = fopen("record.txt","ab+");

    SetColor(45);

    if(fp == NULL){

        MessageBox(0,"Error in Opening file\nMake sure your file is not write protected","Warning",0);

    }else{

        fflush(stdin);

        gotoxy(print,10);printf("ID: ");gets(stu.ID);

        //here you can confirms the ID

        gotoxy(print,12);printf("Name: ");gets(stu.name);

        gotoxy(print,14);printf("Address: ");gets(stu.add);

        gotoxy(print,16);printf("Parent's name: ");gets(stu.parname);

        gotoxy(print,18);printf("Class: ");scanf("%d",&stu.Class);

        gotoxy(print,20);printf("Phone Number: ");scanf("%ld",&stu.phone\_no);

        fwrite(&stu, sizeof(stu), 1, fp);

        gotoxy(40,22); printf("The record is sucessfully added");

    }

    SetColor(28);

    fclose(fp);

    return;

}

void search\_student(){

    clearWindow();

    print\_heading("Search Record");

    SetColor(45);

    char s\_id[15];

    int isFound = 0;

    gotoxy(37,10);printf("Enter ID to Search: ");fflush(stdin);

    gets(s\_id);

    FILE \*fp;

    fp = fopen("record.txt","rb");

    while(fread(&stu,sizeof(stu),1,fp) == 1){

        if(strcmp(s\_id,stu.ID) == 0){

            isFound = 1;

            break;

        }

    }

    if(isFound == 1){

        gotoxy(37,12);printf("The record is Found");

        gotoxy(37,14);printf("ID: %s",stu.ID);

        gotoxy(37,15);printf("Name: %s",stu.name);

        gotoxy(37,16);printf("Address: %s",stu.add);

        gotoxy(37,17);printf("Parent's Name: %s",stu.parname);

        gotoxy(37,18);printf("Class: %d",stu.Class);

        gotoxy(37,19);printf("Phone No: %ld",stu.phone\_no);

    }else{

        gotoxy(37,12);printf("Sory, No record found in the database");

    }

    SetColor(28);

    fclose(fp);

    return;

}

void mod\_student(){

    clearWindow();

    print\_heading("Modify Record");

    SetColor(45);

    char s\_id[15];

    int isFound = 0, print = 37;

    gotoxy(37,10);printf("Enter ID to Modify: ");fflush(stdin);

    gets(s\_id);

    FILE \*fp;

    fp = fopen("record.txt","rb+");

    while(fread(&stu, sizeof(stu),1,fp) == 1){

        if(strcmp(s\_id, stu.ID) == 0){

            fflush(stdin);

            gotoxy(print,12);printf("ID: ");gets(stu.ID);

            gotoxy(print,13);printf("Name: ");gets(stu.name);

            gotoxy(print,14);printf("Address: ");gets(stu.add);

            gotoxy(print,15);printf("Parent's name: ");gets(stu.parname);

            gotoxy(print,16);printf("Class: ");scanf("%d",&stu.Class);

            gotoxy(print,17);printf("Phone Number: ");scanf("%ld",&stu.phone\_no);

            fseek(fp,-sizeof(stu), SEEK\_CUR);

            fwrite(&stu,sizeof(stu), 1, fp);

            isFound = 1;

            break;

        }

    }

    if(!isFound){

        gotoxy(print, 12);printf("No Record Found");

    }

    fclose(fp);

    SetColor(28);

    return;

}

void gen\_marksheet(){

    //left for further enhancement

}

void delete\_student(){

    clearWindow();

    print\_heading("Delete Record");

    SetColor(45);

    char s\_id[15];

    int isFound = 0, print = 37;

    gotoxy(37,10);printf("Enter ID to Modify: ");fflush(stdin);

    gets(s\_id);

    FILE \*fp, \*temp;

    fp = fopen("record.txt","rb");

    temp = fopen("temp.txt", "wb");

    while(fread(&stu, sizeof(stu),1,fp) == 1){

        if(strcmp(s\_id, stu.ID) == 0){

            fwrite(&stu,sizeof(stu),1,temp);

        }

    }

    fclose(fp);

    fclose(temp);

    remove("record.txt");

    rename("temp.txt","record.txt");

    gotoxy(37,12);printf("The record is sucessfully deleted");

    SetColor(28);

    return;

}

void main\_window(){

    int choice;

    SetColor(28);

    int x = 2;

    while(1){

        gotoxy(x,8);printf("1. Add Student");

        gotoxy(x,10);printf("2. Search Student");

        gotoxy(x,12);printf("3. Modify Student Record");

        gotoxy(x,14);printf("4. Generate Marksheet");

        gotoxy(x,16);printf("5. Delete Student Record");

        gotoxy(x,18);printf("6. Change password");

        gotoxy(x,20);printf("7. Exit");

        gotoxy(x,22);printf("Enter your choice: ");

        scanf("%d",&choice);

        switch(choice){

            case 1:

                add\_student();

                break;

            case 2:

                search\_student();

                break;

            case 3:

                mod\_student();

                break;

            case 4:

                break;

            case 5:

                delete\_student();

                break;

            case 6:

                break;

            case 7:

                exit(0);

                break;

            default:

                break;

        }

    }

}

int main(){

    ClearConsoleToColors(17,15);

    SetConsoleTitle("[http://wws.programming-techniques.com](http://wws.programming-techniques.com/) - Student Record System");

    window();

    //use\_pass\_field();

    main\_window();

    return 0;

}

**Code for Project of Student information management in C Programming**

#include<stdio.h>

int bubble(int\*,int);

void filewrite();

void avgmarks();

void fileprint();

void filesort();

void rollin();

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SORTING FUNCTION \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  
int bubble(int x[],int n)

{

int hold,j,pass,i,switched = 1;

for(pass = 0; pass < n-1 && switched == 1;pass++)

{

switched=0;

for (j=0;j<n-pass-1;j++)

if (x[j]>x[j+1])

{

switched=1;

hold = x[j];

x[j] = x[j+1];

x[j+1]=hold;

}

}

return(0);

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* FILE WRITING FUNCTION \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  
void filewrite()

{

int roll,ch,mark;

char nam[50];

FILE \*fp;

clrscr();

fp = fopen("student.txt","a");

printf("ENTER ROLL NUMBER, NAME , MARKS \n");

ch =1;

while(ch)

{

scanf("%d%s%d",&roll,&nam,&mark);

fprintf(fp,"%d %s %d\n",roll,nam,mark);

printf("\n\n press 1 to continue,0 to stop");

scanf("%d",&ch);

}

fclose(fp) ;

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* OUTPUTING DATA ON SCREEN\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  
void fileprint()

{

int marks[100],rollno[100],x[100],i;

char name[100][50];

FILE \*fp;

clrscr();

fp = fopen("student.txt","r");

i=0;

printf("ROLLNO NAME MARK\n");

while(!feof(fp))

{

fscanf(fp,"%d %s %d\n",&rollno[i],&name[i],&marks[i]);

printf(" %d %s %d\n",rollno[i],name[i],marks[i]);

i=i+1;

}

fclose(fp);

printf("\n\n\nPRESS ANY KEY");

getch();

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SORTING FILE \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  
void filesort()

{ int marks[100],rollno[100],x[100],n,i,j;

char name[100][50];

FILE \*fp,\*fm;

fp = fopen("student.txt","r");

fm = fopen("marks.txt","w");

i=0;

while(! feof(fp))

{

fscanf(fp,"%d %s %d\n",&rollno[i],&name[i],&marks[i]);

x[i]= marks[i];

i=i+1;

}

n=i;

bubble(x,n);

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

{

printf(" %d\t",x[i]);

}

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

{

for (j=0;j<n;j++)

{

if(x[i]==marks[j])

{

fprintf(fm,"%d %s %d\n",rollno[j],name[j],marks[j]);

}

}

}

fclose(fm);

fclose(fp);

printf("\n\n\nPRESS ANY KEY");

getch();

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* DATA USING ROLLNO\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  
void rollin()

{ int i,roll,ch,mark,roll1;

char nam[50];

FILE \*fm;

ch=1;

while(ch)

{ clrscr();

fm = fopen("marks.txt","r");

printf(" \n ENTER ROLL NUMBER - ");

scanf("%d",&roll1);

i=0;

while(! feof(fm))

{

fscanf(fm,"%d %s %d\n",&roll,&nam,&mark);

if(roll1==roll)

{printf("\nROLLNO. NAME MARKS\n ");

printf(" %d %s %d\n",roll,nam,mark);

break;

}

else

i=i+1;

}

printf("\n\npress 1 to see student info, 0 to return to main menu\n");

scanf("%d",&ch);

fclose(fm);

}

}

void avgmarks()

{

int marks[100],rollno[100],n,i;

float avg,x;

char name[100][50];

FILE \*fm;

fm = fopen("marks.txt","r");

i=0;

while(! feof(fm))

{

fscanf(fm,"%d %s %d\n",&rollno[i],&name[i],&marks[i]);

x = x + marks[i];

i=i+1;

}

n = i;

avg = x/n;

printf("AVERAGE MARKS OF %d STUDENTS ARE - %f ",n,avg);

fclose(fm);

printf("\n\n\nPRESS ANY KEY");

getch();

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* FUNC. ENDS\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  
void main()

{

int marks[100],rollno[100],x[100],n,i,j,roll,c,mark,roll1;

char name[100][10],nam[50];

while(c!=6)

{

clrscr();

printf("GIVE CHOICE--\n");

printf(" 1 TO ENTER STUDENT INFO.\n");

printf(" 2 TO SEE STUDENT.TXT FILE\n");

printf(" 3 TO SORT FILE ON BASIS OF MARKS\n");

printf(" 4 TO PRINT STUDENT INFO. USING ROLL NO\n");

printf(" 5 TO FIND AVERAGE OF MARKS\n");

printf(" 6 TO EXIT\n\n--");

scanf("%d",&c);

clrscr();

switch(c)

{

case 1:

filewrite();

break;

case 2:

fileprint();

break;

case 3:

filesort();

break;

case 4: rollin();

break;

case 5: avgmarks();

break;

case 6:

break;

default:

break;

}

}

}