PREMIER UNIVERSITY

Department of computer Science & Engineering

Assignment Report

"Class Routine"

Course Title: Structured Programming Laboratory.

Course Code: CSE 112

Submitted by:

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Introduction:

The class routine is simply a set of procedures for handling classes with specific timing of each classes.Now by using C programming the whole weeks class routine of section C1 or Premier University will be shown to the user by entering user name and password.

Input:

In the execution screen at first it will ask for one input which will identify whether the user wants to register or login by entering 1 or 2. If ones the registration is done then the user can enter 2 and check class routine.

- if user enters 1 then registration process will move forward by clearing the previous message on screen the program will ask more 4 input which we will initiate as first name, last name, username and password respectively and then it will show some messages which is given by printf and further execution will wait until we enter any key after entering any key again the execution screen will ask for two input which is denoted by user name and user password respectively after verifying the whole above process again it will show some messages and then ask for another input which is the final input to show the class routine of the specific day.
- If user enters 2 then login process will move forward to ask two input which is denoted by user name and user password after verifying it will some messages and then ask for another input which is the final input to show the class routine of the specific day.

Process:

- When the user enters 1 and the registration process starts then at first the four inputs will be stored into the routine user.txt file and then login process will move forward by taking two input again as user name and password and then this two will be checked with the user name and password which is stored while registration in the file and if it matches then the program will ask which days routine the user wants to see and then it shows the routine by calling the variables which was stored as the classname ,roomnumber ,startingtime ,endingtime and teachersname at the beginning of the code.
- When the user enters 2 which means already the registration is done so further by asking as two input as username and password it will checked weather it matches with the registration information and if it matches it will ask for which day the user wants to see the routine but if it doesn't matches it will give a massage that please enter correct user id.

Output:

- Which days routine does the user wants to see will be shown on the execution screen.

Source code:

```
#include<stdio.h>
char *times[]=
{"8.30am","8.55am","9.20am","9.45am","10.35am","11am","12.15pm","12.40pm","1.30pm","1.55pm","2.45","3.35"};
char *teachers_name[]= {"MH","KLD","KMAY","FSC","NJS","SRPL"};
char *class_name[]= {"SPL","EMII","SP","Elecl","DM","EPII","DES","ELEC1L"};
int room_number[10]= {403,404,406,408,410,506,605,708,804};
void display_massage(int num1,int num2, int num3,int num4,int num5,int num6)
{
   printf("Class %d - %s | Room No. - %d | Class Time - %s-%s | Teachers name -
%s|\n\n",num6,class_name[num1],room_number[num2],times[num3],times[num4],teachers_name[num5]);
}
struct login
{
   char fname[100];
   char lname[100];
   char username[100];
   char password[20];
```

```
};
registe()
{
    FILE *log;
    log=fopen("routine user.txt","w");
    struct login l;
    printf("Enter first name : ");
    scanf("%s",l.fname);
    printf("Enter last name : ");
    scanf("%s",l.lname);
    printf("Enter username : ");
    scanf("%s",l.username);
    printf("enter password : ");
    scanf("%s",l.password);
    fwrite(&l,sizeof(l),1,log);
    fclose(log);
    printf("Your user name is user Id\n");
    printf("Now login with id and password\n");
    printf("press any key");
    getch();
    system("CLS");
    login();
}
login()
{
    char username[200],password[20];
    FILE *log;
    log=fopen("routine user.txt","r");
    struct login l;
    printf("Login\n");
    printf("Enter your user name : ");
    scanf("%s",username);
    printf("Enter password : ");
    scanf("%s",password);

    while(fread(&l,sizeof(l),1,log))
    {
        if(strcmp(username,l.username)==0&&strcmp(password,l.password)==0)
        {
            system("CLS");
             printf("Welcome to Premier University Routine\n");
            int total_class,class_start,class_end,p,q,r,s,t;
            char day_name[10];
            printf("Enter Day : ");
            fflush(stdin);
            gets(day_name);
            if(strcmpi(day_name,"Saturday")==0)
            {
                total_class=2;
                for(int i=1; i<=total_class; i++)
                {
                    if(i==1)
```

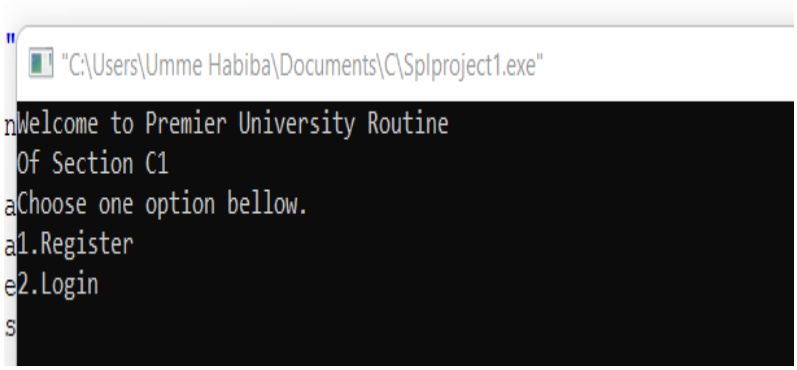
```
        {
            p=0; //(p is the index of class_name)
            q=6; //(q is the index of room_number)
            r=2; //(r is the index of times and it shows starting time)
            s=5; //(s is the index of times and it shows ending time)
            t=0; //(t is the index of teachers_name)
            display_massage(p,q,r,s,t,i);
        }
        if(i==2)
        {
            p=1;
            q=3;
            r=5;
            s=6;
            t=1;
            display_massage(p,q,r,s,t,i);
        }

    }
}
else if(strcmpi(day_name,"Sunday")==0)
{
    total_class=3;
    for(int i=1; i<=total_class; i++)
    {
        if(i==1)
        {
            p=0;
            q=6;
            r=1;
            s=4;
            t=0;
            display_massage(p,q,r,s,t,i);
        }
        if(i==2)
        {
            p=2;
            q=8;
            r=4;
            s=6;
            t=0;
            display_massage(p,q,r,s,t,i);
        }
        if(i==3)
        {
            p=3;
            q=2;
            r=6;
            s=8;
            t=2;
            display_massage(p,q,r,s,t,i);
        }
```

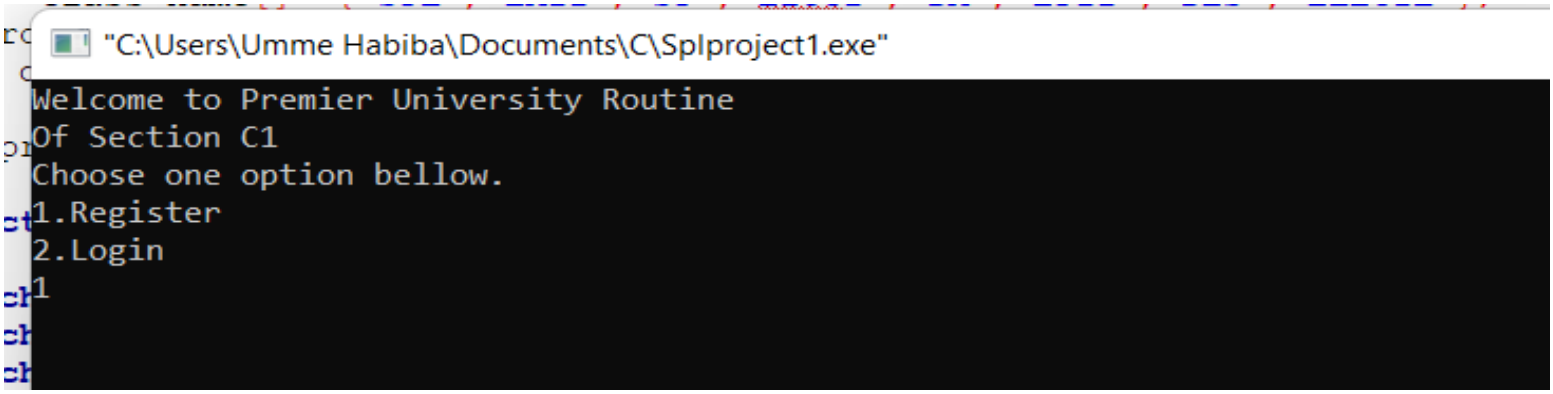
```
    }
}
else if(strcmpi(day_name,"Monday")==0)
{
    total_class=2;
    for(int i=1; i<=total_class; i++)
    {
        if(i==1)
        {
            p=4;
            q=4;
            r=6;
            s=8;
            t=3;
            display_massage(p,q,r,s,t,i);
        }
        if(i==2)
        {
            p=1;
            q=1;
            r=8;
            s=10;
            t=1;
            display_massage(p,q,r,s,t,i);
        }
    }
}
else if(strcmpi(day_name,"Tuesday")==0)
{
    total_class=3;
    for(int i=1; i<=total_class; i++)
    {
        if(i==1)
        {
            p=7;
            q=5;
            r=0;
            s=5;
            t=2;
            display_massage(p,q,r,s,t,i);
        }
        if(i==2)
        {
            printf("Break Time : %s-%s\n\n",times[5],times[7]);
        }
        if(i==3)
        {
            p=5;
            q=0;
            r=7;
            s=9;
            t=4;
```

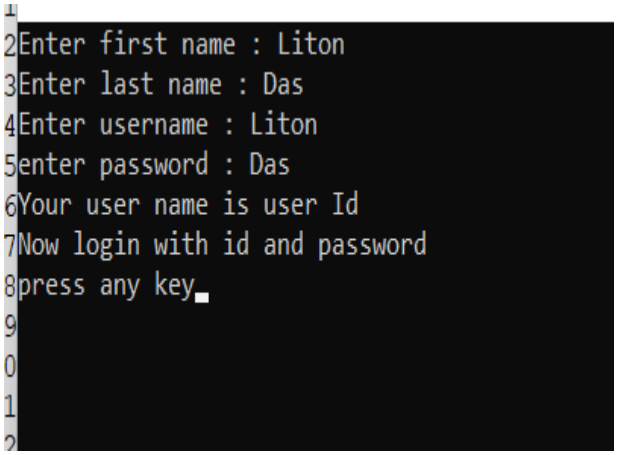
```
            display_massage(p,q,r,s,t,2);
        }
    }
}
else if(strcmpi(day_name,"Wednesday")==0)
{
    total_class=5;
    for(int i=1; i<=total_class; i++)
    {
        if(i==1)
        {
            p=3;
            q=8;
            r=3;
            s=5;
            t=2;
            display_massage(p,q,r,s,t,i);
        }
        if(i==2)
        {
            p=5;
            q=8;
            r=5;
            s=6;
            t=4;
            display_massage(p,q,r,s,t,i);
        }
        if(i==3)
        {
            p=4;
            q=2;
            r=6;
            s=8;
            t=3;
            display_massage(p,q,r,s,t,i);
        }
        if(i==4)
        {
            printf("Break Time : %s-%s\n\n",times[8],times[9]);
        }
        if(i==5)
        {
            p=6;
            q=7;
            r=9;
            s=11;
            t=5;
            display_massage(p,q,r,s,t,4);
        }
    }
}
else if(strcmpi(day_name,"Thursday")==0||strcmpi(day_name,"Friday")==0)
```

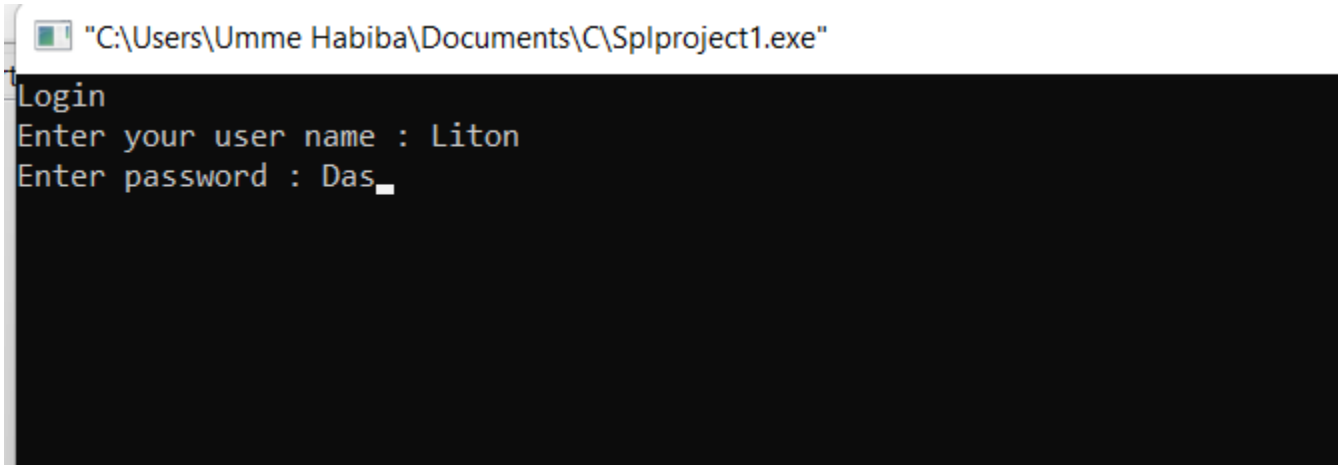
```
        {
            printf(" Happy Holiday!\n Enjoy your Holiday.\n Spent some time to learn something new.");
        }
        else
        {
            printf("Please Enter valid day!");
        }
    }
    else
    {
        printf("please enter correct user Id");
    }
  }
  fclose(log);

}
int main()
{
  printf("Welcome to Premier University Routine\n");
  printf("Of Section C1\n");
  int cho;
  printf("Choose one option bellow.\n");
  printf("1.Register\n");
  printf("2.Login\n");
  scanf("%d",&cho);
  if(cho==1)
  {
     system("CLS");
     registe();
  }
  else if(cho==2)
  {
     system("CLS");
     login();
  }
}
```

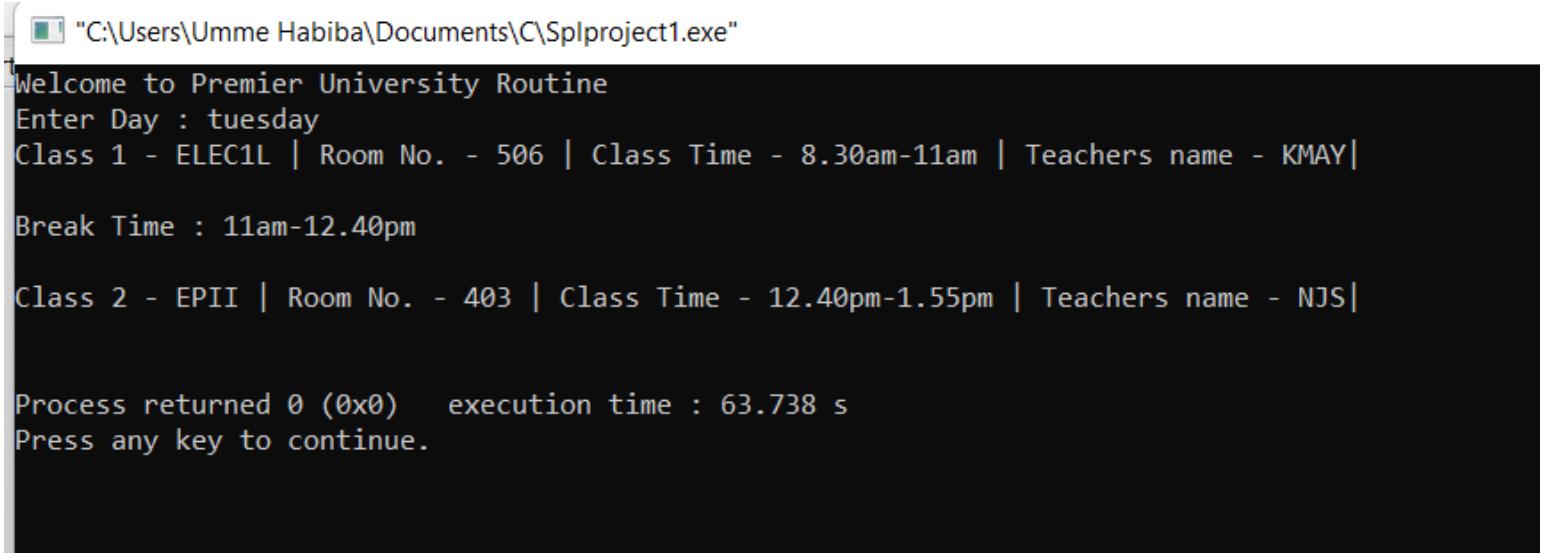
Sample input and output: 1.First sample run:



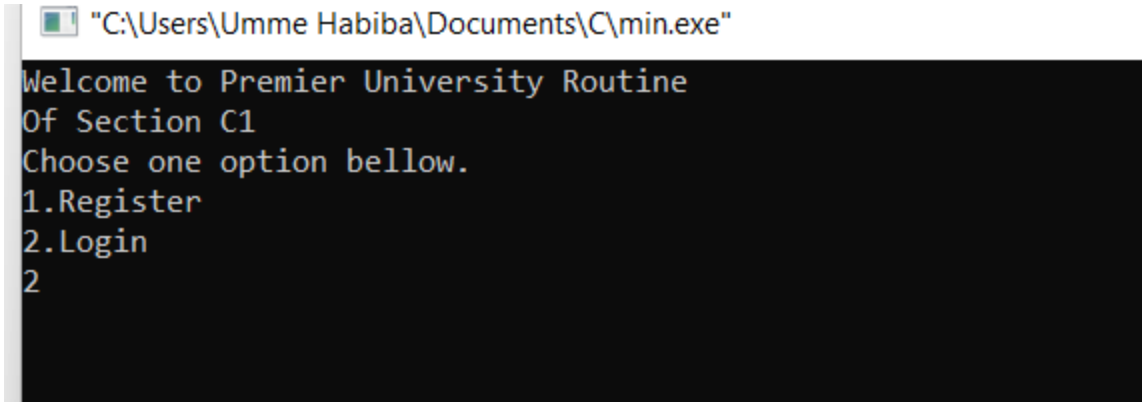


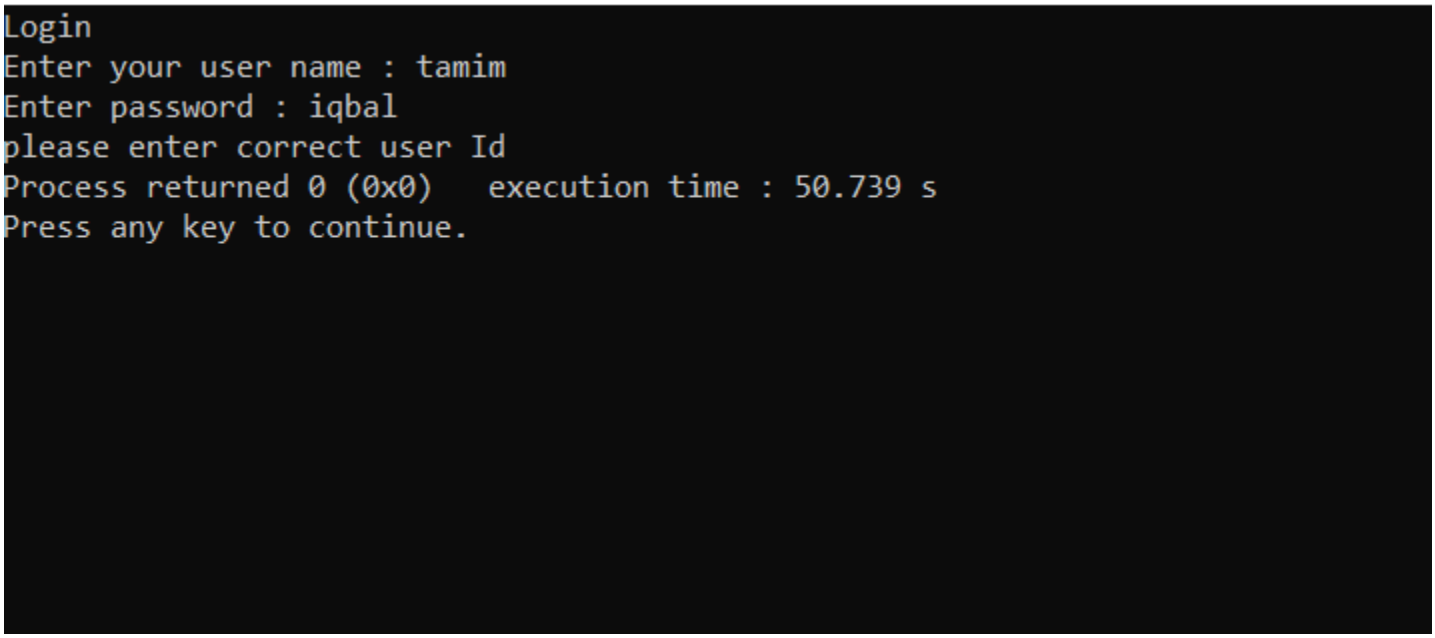






2.Second sample run:





Discussion:

By this program easily a user can register or login and then find the class routine of a specific day. There is some limitations which are:

- Only one user information is stored in a file and checked.
- Only one sections classroutine is shown.