



IPD PROJECT ON
OFFICE MANAGEMENT SYSTEM
Using C++

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IT Section 1

Introduction

We begin with a brief introduction about this project and the different stages of the design and the development of **OFFICE MANAGEMENT SYSTEM**. Before detailed discussion, first of all we would like to give an overall idea about this project.

TITLE OF THE PROJECT

"OFFICE MANAGEMENT SYSTEM"

We developed our project on **OFFICE MANGEMNET SYSTEM**, because office System is one of the most common and the first application implemented in any higher educational organization.

In office a large amount of data is processed and the results are used in running an organization. The office management system project maintains the attendance of students and faculty mambbers. It also maintains the result and fee department with a proper menu system. It is more useful to deal with the situation occurs suddenly for eg..in this pandemic situation you can not go to your office.....

Aim of the project:

Our main aim is to make our office system is following

- more efficient
- less time consuming
- fast
- easy to use
- can easily maintain record
- security

FEATURES:

Today use of computer based system is going to increase day by day
Because its fast system for eg. In our system we are maintain result
Of students.....

In this if we have to do sudden change in grade system then its

- **easy**
- **less time consuming**

we have to do small changes in code only

- security

using classes we can keep our data secure using private keyword
all functions and variables are not accessible to everyone...

- **more efficient to use**

you can use it everywhere for eg. In this pandemic situation you can not
go to your office but you can perform all your functions on it like fee
related issues and also maintain result.....

concepts of C++ used:

C++ Classes/Objects

C++ is an object-oriented programming language.

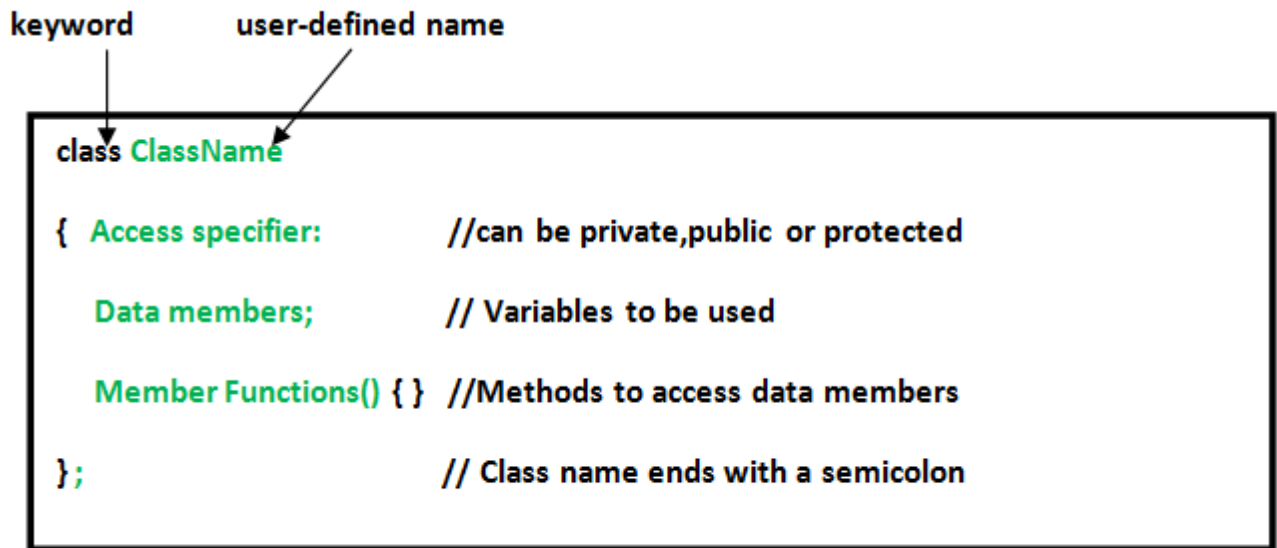
Everything in C++ is associated with classes and objects, along with its attributes and methods. For example: in real life, a car is an **object**. The car has **attributes**, such as weight and color, and **methods**, such as drive and brake.

Attributes and methods are basically **variables** and **functions** that belongs to the class. These are often referred to as "class members".

A class is a user-defined data type that we can use in our program, and it works as an object constructor, or a "blueprint" for creating objects.

Defining Class and Declaring Objects

A class is defined in c++ using keywords class followed by the name of class. The body of class is defined inside the curly brackets and terminated by a semicolon at the end



Declaring Objects: When a class is defined, only the specification for the object is defined; no memory or storage is allocated. To use the data and access functions defined in the class, you need to create objects.

Syntax:

```
ClassName ObjectName;
```

For eg. In this we make student class and in this class we make several functions to perform various tasks like...

- input data
- functions for attendance , result and fee record
- display output

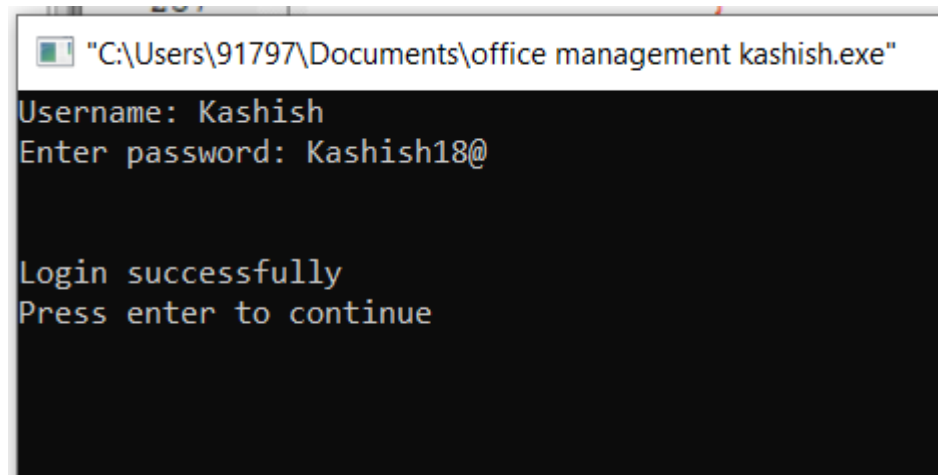
System Requirements:

Our code is feasible on all operating system for eg. Windows , linux etc. And also on compilers except turbo c++ ...for this we have to do little changes in our code.....

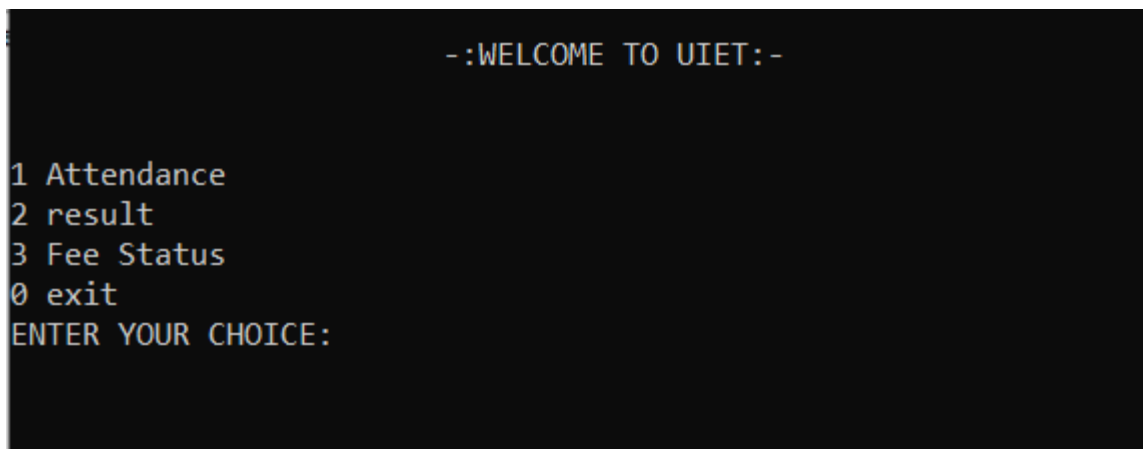
Different modules:

We divided our project in 4 modules:

1. Login
2. Maintenance of students and teachers attendance separately
3. Update marks of exams by faculty members
4. Maintenance of fee by office staff



```
"C:\Users\91797\Documents\office management kashish.exe"  
Username: Kashish  
Enter password: Kashish18@  
  
Login successfully  
Press enter to continue
```



```
-:WELCOME TO UIET:-  
  
1 Attendance  
2 result  
3 Fee Status  
0 exit  
ENTER YOUR CHOICE:
```

1. Login

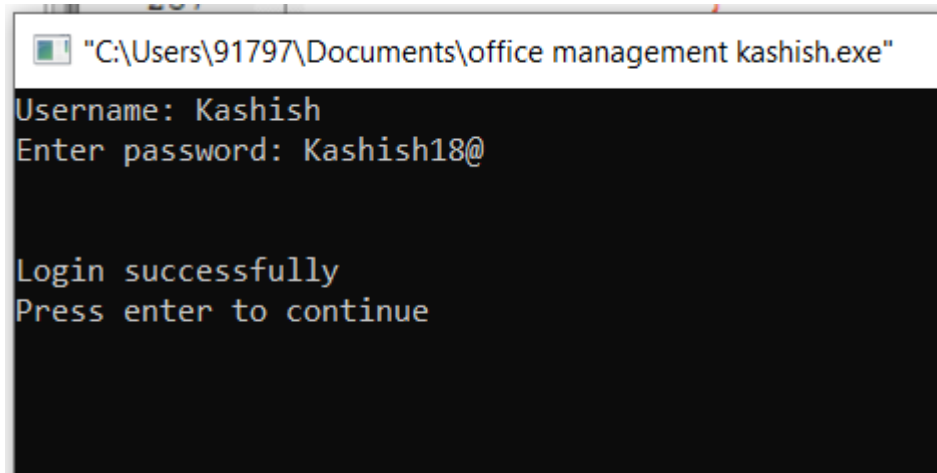
In this we use regex for username and password validation.
After performing login user can perform another task..

Validation on username:

Username must contain uppercase and lowercase letter

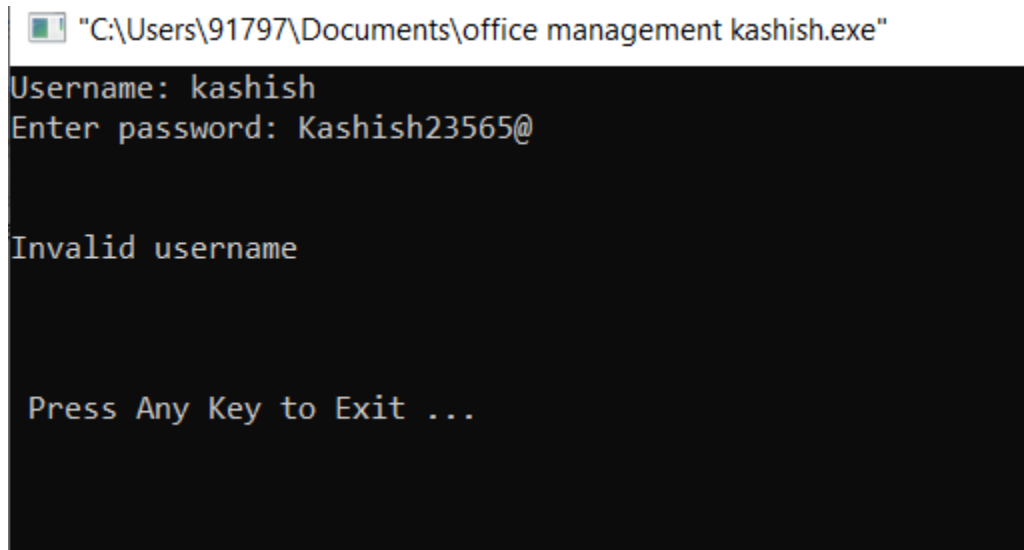
Validation on password:

Password must contain atleast 8 characters...atleast one
uppercase letter , lowercase letter , digit, special symbol

A screenshot of a Windows command prompt window. The title bar at the top reads "C:\Users\91797\Documents\office management kashish.exe". The command prompt shows the following text: "Username: Kashish", "Enter password: Kashish18@", "Login successfully", and "Press enter to continue".

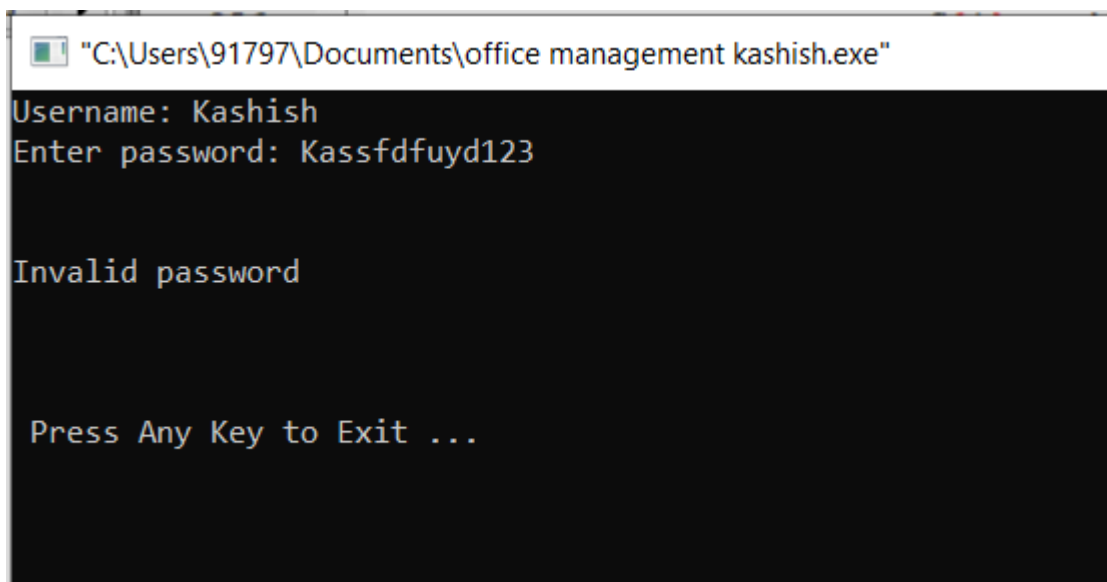
```
"C:\Users\91797\Documents\office management kashish.exe"  
Username: Kashish  
Enter password: Kashish18@  
  
Login successfully  
Press enter to continue
```

Login successfully after entering valid username and password



```
"C:\Users\91797\Documents\office management kashish.exe"  
Username: kashish  
Enter password: Kashish23565@  
  
Invalid username  
  
Press Any Key to Exit ...
```

Invalid username because there is no uppercase letter



```
"C:\Users\91797\Documents\office management kashish.exe"  
Username: Kashish  
Enter password: Kassfdfuyd123  
  
Invalid password  
  
Press Any Key to Exit ...
```

Invalid password because there is no special symbol.


2. Attendance of students and teachers separately

- **For students:**

Student can mark only present day attendance by entering details related to name , roll no. , course

- **For teachers:**

In the same way teacher will have to enter details but teacher will also have option to mark yesterday's attendance..

 "C:\Users\91797\Documents\office management kashish.exe"

```

                                -: STUDENT INFORMATION :-

Entry No. :1
Enter Name: Kashish
Roll no: S1
Enter Course: c++
Next Student (y/n): n
```

Entering details of student

```
"C:\Users\91797\Documents\office management kashish.exe"
Today's Attendance
Roll no      Today's      Yesterday
S1           y
```

Present day attendance of student

```
"C:\Users\91797\Documents\office management kashish.exe"
Mark ATTENDENCE
Press enter to mark attendance
T1: y
Do you want to mark yesterday's Attendance?(y/n) n
T2: y
Do you want to mark yesterday's Attendance?(y/n) y
y
```

After entering details teacher have option to mark yesterday's attendance

Roll no	Today's	Yesterday
T1	y	
T2	y	y

Here teacher whose roll no. is T1 does not mark yesterday's attendance and teacher whose roll no. is T2 mark yesterday's attendance also which is shown above....

3. Update marks of student by faculty member

Here our constraint is evaluation is only valid till fix date
After that we will not be able to do evaluation

In the same way we have to enter details of student like for attendance

```
                                -: STUDENT INFORMATION :-  
  
Entry No. :1  
Enter Name: aggarwal  
Roll no: S1  
Enter Course: c++  
Next Student (y/n): n
```


```
"C:\Users\91797\Documents\office management kashish.exe"  
Enter marks of students:  
S1: 450
```

-: STUDENT'S REPORT :-

Student No.: 1

Name: aggarwal Roll no: S1 Course: c++ Marks: 450 Grade: A

Do you want to go for evaluation(y/n): y

 "C:\Users\91797\Documents\office management kashish.exe"

Sorry! Date of evaluation has crossed
Thanks

Press Any Key to Exit ...

In my code I have fixed last date of evaluation 20 june 2020

So we are not able to do evaluation.....

```
"C:\Users\91797\Documents\office management kashish.exe"
Enter roll no:S1
What is the updated marks: 470

Marks has updated successfully

Press any key.....
```

```
"C:\Users\91797\Documents\office management kashish.exe"

-: STUDENT'S REPORT :-

Student No.: 1
Name: aggarwal Roll no: S1 Course: c++ Marks: 470 Grade: A


Thanks

Press Any Key to Exit ...
```

Here we are able to update marks because I extended last date of Evaluation further.....

4.Maintenance of fee :

In the same way we have to enter details of student and also the date of submission of fee is fixed that I have fixed 20 june 2020 in my code which can be changed and after the fixed day per day fine is Rs. 50 which will be added for late submission.


 "C:\Users\91797\Documents\office management kashish.exe"

```

-: STUDENT INFORMATION :-

Entry No. :1
Enter Name: kashish
Roll no: S1
Enter Course: c++
Next Student (y/n): n
```


Enter details of student to check fee status

 "C:\Users\91797\Documents\office management kashish.exe"

```
Enter the roll no for which you want to check fee status:S1
Has this student paid the fees?(y/n)y
Ok, fine

Do you want to check more?(y/n)
```

Student had already paid the fee

 "C:\Users\91797\Documents\office management kashish.exe"

```
Enter the roll no for which you want to check fee status:S1
Has this student paid the fees?(y/n)n
Last date of fee submission was 20 june 2020
You are fined 450 rupees

Do you want to check more?(y/n)
```

**student did not pay fee before last date so fine is mentioned
according to per day fine charges and last date of fee submission...**

THANK YOU.....