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Projects

Project – 1

Leave Management System (March – April 2022)

Tools used – C++ | OOPs

A system maintaining the statistic and record of leaves available for the employee and how many have taken along with other details for a registered employee.

CODE

```
1 #include <iostream>
2 #include <string>
3 using namespace std;
4 class leaverecord
5 {
6     int cl,pl,ml;
7     int taken_cl=0,taken_pl=0,taken_ml=0;
8     int total_cl=3,total_pl=3,total_ml=5;
9     public:
10    char leavetype;
11    void leavepermission()
12    {
13        cout<<"\n\nWhich type of leave do you want?\nEnter c for Common Leave , p for privilaged leave and m for medical leave : ";
14        cin>>leavetype;
15        switch(leavetype){
16            case 'c':
17                cout<<"Enter the number of leaves you want : ";
18                cin>>cl;
19                if(cl<=total_cl){
20                    taken_cl = taken_cl + cl;
21                    total_cl = total_cl - cl;
22                    cout<<"\nYour leave is granted";
23                    cout<<"\nYour remaining common leaves are: "<<total_cl;
24                }
25                else{
26                    cout<<"\nsorry! You dont have enough number of common leaves left.";
27                }
28                break;
29            case 'p':
30                cout<<"Enter the number of leaves you want : "<<endl;
31                cin>>pl;
32                if(pl<=total_pl){
33                    taken_pl = taken_pl + pl;
34                    total_pl = total_pl - pl;
35                    cout<<"\nYour leave is granted";
```

```
36                cout<<"\nYour remaining privilaged leaves are: "<<total_pl;
37            }
38            else{
39                cout<<"\nsorry! You dont have enough number of common leaves left.";
40            }
41            break;
42            case 'm':
43                cout<<"Enter the number of leaves you want : "<<endl;
44                cin>>ml;
45                if(ml<=total_ml){
46                    taken_ml = taken_ml + ml;
47                    total_ml = total_ml - ml;
48                    cout<<"\nYour leave is granted";
49                    cout<<"\nYour remaining medical leaves are: "<<total_ml;
50                }
51                else{
52                    cout<<"\nsorry! You dont have enough number of common leaves left.";
53                }
54                break;
55            default:
56                cout<<"Wrong input";
57                break;
58        }
59    }
60    void leave_details()
61    {
62        cout<<endl<<"LEAVE DETAILS OF EMPLOYEE ARE : "<<endl<<endl;
63        cout<<"LEAVE TYPE"<<"          "<<"LEAVES TAKEN"<<"          "<<"LEAVES REMAINING"<<endl;
64        cout<<"1.CAUSUAL LEAVE"<<"          "<<taken_cl<<"          "<<total_cl<<endl;
65        cout<<"2.PRIVILAGED LEAVE"<<"          "<<taken_pl<<"          "<<total_pl<<endl;
66        cout<<"3.MEDICAL LEAVE"<<"          "<<taken_ml<<"          "<<total_ml<<endl;
67    }
68 };
69 class employee{public: leaverecord
```

```

69 class employee:public leaverecord
70 {
71     string name;
72     int mobileno;
73     string dob;
74     float salary;
75 public:
76     int id;
77     void get_data_of_employee()
78     {
79         cin.ignore();
80         cout<<"Enter the name of the employee : ";
81         getline(cin,name);
82         cout<<"Enter the mobile number of the employee : ";
83         cin>>mobileno;
84         cout<<"Enter the salary of the employee : ";
85         cin>>salary;
86         cout<<"Enter the date of birth of the employee : ";
87         cin.ignore();
88         getline(cin,dob);
89         cout<<endl<<"YOU ARE SUCCESSFULLY REGISTERED. ";
90     }
91     void set_data_of_employee()
92     {
93         cout<<endl<<"DETAILS OF EMPLOYEE ARE : "<<endl<<endl;
94         cout<<"NAME : "<<"<<endl;
95         cout<<"ID : "<<"<<endl;
96         cout<<"MOBILE NUMBER : "<<"<<endl;
97         cout<<"DATE OF BIRTH : "<<"<<endl;
98         cout<<"SLARY : "<<"<<endl;
99     }
100     void modify_details()
101     {
102     }
103     int ch;

```

```

104     cout<<"WELCOME"<<"<<endl;
105     set_data_of_employee();
106     cout<<"\nWhich Detail would you like to modify?";
107     cout<<"\nEnter 1 for name,\nEnter 2 for Phone Number,\nEnter 3 for DOB,\nEnter 4 for Salary.";
108     cin>>ch;
109     if(ch == 1){
110         cin.ignore();
111         cout<<"Enter new name : ";
112         getline(cin,name);
113     }
114     else if(ch == 2){
115         cout<<"Enter new Phone NUMBER : ";
116         cin>>mobileno;
117     }
118     else if(ch == 3){
119         cin.ignore();
120         cout<<"Enter new DOB : ";
121         getline(cin,dob);
122     }
123     else if(ch == 4){
124         cout<<"Enter new salary : ";
125         cin>>salary;
126     }
127     else{
128         cout<<"Wrong choice";
129     }
130 }
131 };
132 int main()
133 {
134     int choice = 0,total_emp=0,id,i,f;
135     employee e[100];
136     cout<<"\n\n-----WELCOME TO LEAVE MANAGEMENT SYSTEM-----";
137     cout<<"\n\n----If you are a new employee, then please register yourself first----\n";
138     //cout<<"\n\n-----";

```

```

139     while(choice!=5){
140
141         cout<<"\n\n-----HOME-----\n";
142         cout<<"\n 1.Register";
143         cout<<"\n 2.Ask for leave";
144         cout<<"\n 3.Show details";
145         cout<<"\n 4.Modify details";
146         cout<<"\n 5.Exit";
147         cout<<"\nChoose option : ";
148         cin>>choice;
149         switch(choice){
150             case 1:
151                 f=0;
152                 cout<<"Enter ID : ";
153                 cin>>id;
154                 for(i=0;i<total_emp;i++){
155                     if(e[i].id==id){
156                         cout<<"Employee with this id already exists.";
157                         f = 1;
158                     }
159                 }
160                 if(f==0){
161                     e[total_emp].get_data_of_employee();
162                     e[total_emp].id = id;
163                     total_emp++;
164                 }
165                 break;

```

```

166 case 2:
167     f=0;
168     cout<<"Enter ID : ";
169     cin>>id;
170     for(i=0;i<total_emp;i++){
171         if(e[i].id==id){
172             e[i].leave_details();
173             e[i].leavepermission();
174             f = 1;
175             break;
176         }
177     }
178     if(f==0){
179         cout<<endl<<"Sorry , employee with this ID does not exists. "<<endl;
180     }
181     break;
182 case 3:
183     f=0;
184     cout<<"Enter ID : ";
185     cin>>id;
186     for(i=0;i<total_emp;i++){
187         if(e[i].id==id){
188             e[i].set_data_of_employee();
189             e[i].leave_details();
190             f = 1;
191             break;
192         }
193     }
194     if(f==0){
195         cout<<endl<<"Sorry , employee with this ID does not exists. "<<endl;
196     }
197     break;
198 case 4:
199     f=0;
200     cout<<"Enter ID : ";

```

```

200     cout<<"Enter ID : ";
201     cin>>id;
202     for(i=0;i<total_emp;i++){
203         if(e[i].id==id){
204             e[i].modify_details();
205             f = 1;
206             break;
207         }
208     }
209     if(f==0){
210         cout<<endl<<"Sorry , employee with this ID does not exists. "<<endl;
211     }
212     break;
213 case 5:
214     cout<<"\nYOU HAVE EXITED THE LEAVE MANAGEMENT SYSTEM\n";
215     cout<<"\n-----THANK YOU-----";
216     break;
217 }
218 }
219 return 0;
220 }

```

OUTPUT

```

-----WELCOME TO LEAVE MANAGEMENT SYSTEM-----
----If you are a new employee, then please register yourself first----

-----HOME-----

1.Register
2.Ask for leave
3.Show details
4.Modify details
5.Exit
Choose option : 1
Enter ID : 20
Enter the name of the employee : anshul
Enter the mobile number of the employee : 7489
Enter the salary of the employee : 100000
Enter the date of birth of the employee : 19 07 2004

YOU ARE SUCCESSFULLY REGISTERED.

-----HOME-----

1.Register
2.Ask for leave
3.Show details
4.Modify details
5.Exit
Choose option : 3
Enter ID : 20

DETAILS OF EMPLOYEE ARE :

NAME :                anshul
ID :                  20
MOBILE NUMBER :       7489
DATE OF BIRTH :       19 07 2004
SLARY :               100000

```

```

LEAVE DETAILS OF EMPLOYEE ARE :

LEAVE TYPE          LEAVES TAKEN          LEAVES REMAINING
1.CAUSUAL LEAVE      0                      3
2.PRIVILAGED LEAVE   0                      3
3.MEDICAL LEAVE      0                      5

-----HOME-----

1.Register
2.Ask for leave
3.Show details
4.Modify details
5.Exit
Choose option : 2
Enter ID : 20

LEAVE DETAILS OF EMPLOYEE ARE :

LEAVE TYPE          LEAVES TAKEN          LEAVES REMAINING
1.CAUSUAL LEAVE      0                      3
2.PRIVILAGED LEAVE   0                      3
3.MEDICAL LEAVE      0                      5

Which type of leave do you want?
Enter c for Common Leave , p for privilaged leave and m for medical leave : m
Enter the number of leaves you want :
2

Your leave is granted
Your remaining medical leaves are: 3

-----HOME-----

```

```

1.Register
2.Ask for leave
3.Show details
4.Modify details
5.Exit
Choose option : 4
Enter ID : 20
WELCOME          anshul

DETAILS OF EMPLOYEE ARE :

NAME :            anshul
ID :             20
MOBILE NUMBER :   7489
DATE OF BIRTH :   19 07 2004
SLARY :           100000

Which Detail would you like to modify?
Enter 1 for name,
Enter 2 for Phone Number,
Enter 3 for DOB,
Enter 4 for Salary.2
Enter new Phone Number : 7489

-----HOME-----

```

Project – 2

Calculator (September 2022)

Tools used – HTML | CSS | JavaScript

A mathematical calculator on a webpage that can perform mathematical expressions like as Add, Subtract, Multiply and divide etc.

CODE

```
> 1
  Calculator
    backimg.webp
    calculator.html

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Calculator</title>
8   <style>
9     h1{
10       font-size: 20px;
11       font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
12       font-weight: 50;
13       text-align: center;
14       color: #fff;
15       text-shadow: rgb(255, 239, 17) 3px 0 10px;
16     }
17     #clear{
18       width: 218px;
19       background-color: red;
20       color: white;
21     }
22     .formstyle{
23       width: 218px;
24       height: 305px;
25       margin: auto;
26       border: 2px solid rgb(255, 255, 255);
27       background-color: black;
28     }
29     input{
30       width: 70px;
31       background-color: black;
32       color: #fff;
33     }
```

```
> 1
  Calculator
    backimg.webp
    calculator.html

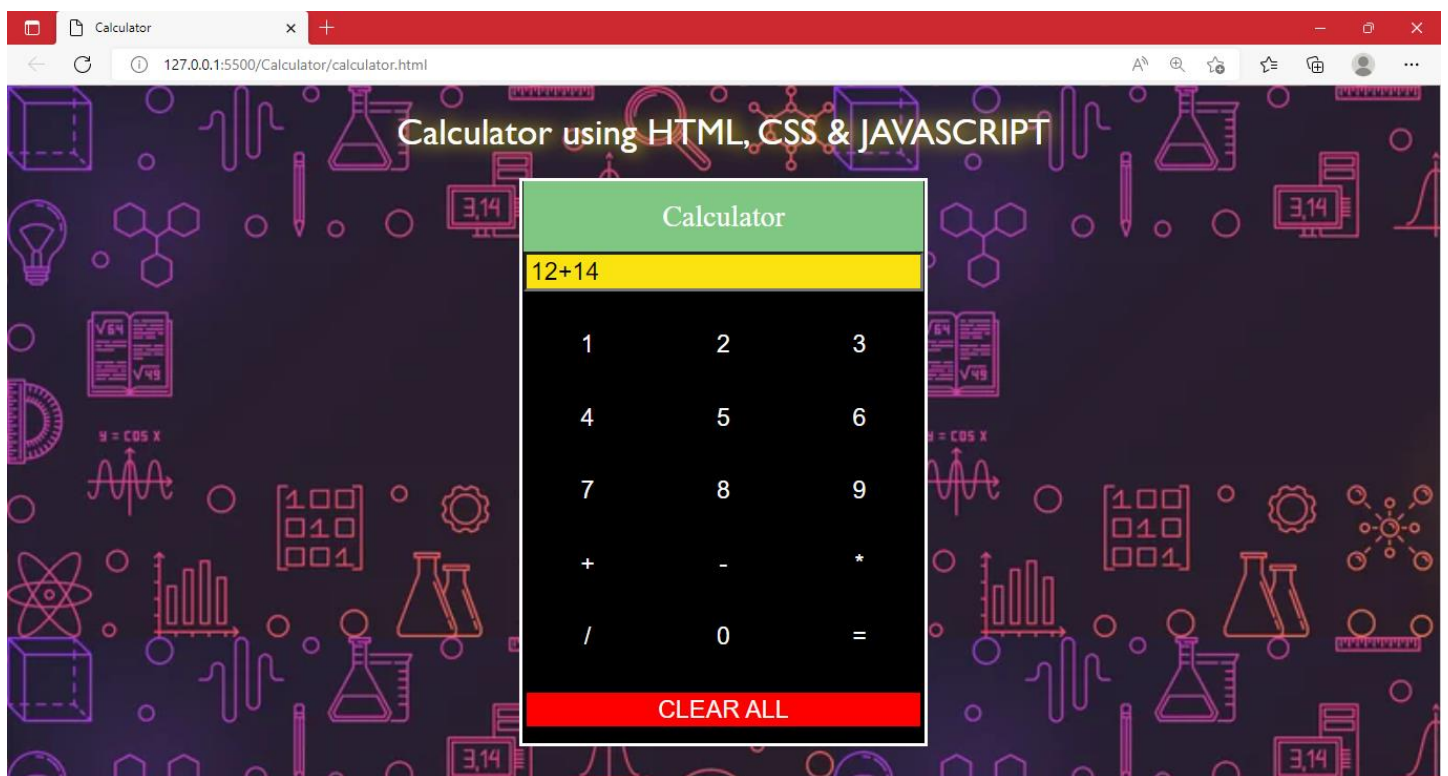
34   #ans{
35     width: 210px;
36     background-color: #fae310;
37   }
38   color: rgb(0, 0, 0);
39
40   }
41   .header{
42     background-color: #81C784;
43     padding: 10px;
44     color: #fff;
45     text-align: center;
46   }
47 }
48 body{
49   background-image: url(backimg.webp);
50 }
51 </style>
52 </head>
53 <body>
54   <h1>Calculator using HTML, CSS & JAVASCRIPT</h1>
55   <div class="formstyle">
56     <div class="header">Calculator</div>
57
58     <form name="forms">
59
60       <input type="text" name="answer" id="ans">
61       <br><br>
62       <input type="button" value=" 1 " onclick="forms.answer.value += '1' " >
63       <input type="button" value=" 2 " onclick="forms.answer.value += '2' " >
64       <input type="button" value=" 3 " onclick="forms.answer.value += '3' " >
65       <br> <br>
```

```

66 <input type="button" value=" 4 " onclick="forms.answer.value += '4' " >
67 <input type="button" value=" 5 " onclick="forms.answer.value += '5' " >
68 <input type="button" value=" 6 " onclick="forms.answer.value += '6' " >
69 <br> <br>
70 <input type="button" value=" 7 " onclick="forms.answer.value += '7' " >
71 <input type="button" value=" 8 " onclick="forms.answer.value += '8' " >
72 <input type="button" value=" 9 " onclick="forms.answer.value += '9' " >
73 <br> <br>
74 <input type="button" value=" + " onclick="forms.answer.value += '+' " >
75 <input type="button" value=" - " onclick="forms.answer.value += '-' " >
76 <input type="button" value=" * " onclick="forms.answer.value += '*' " >
77 <br> <br>
78 <input type="button" value=" / " onclick="forms.answer.value += '/' " >
79 <input type="button" value=" 0 " onclick="forms.answer.value += '0' " >
80 <input type="button" value=" = " onclick="forms.answer.value = eval(forms.answer.value) " >
81 <br> <br>
82 <input type="button" value="CLEAR ALL" onclick="forms.answer.value = '' " id="clear">
83
84
85
86
87 </form>
88 </div>
89
90 </body>
91 </html>

```

OUTPUT



|| THANK YOU ||