

Answer on Question #52326 – Programming – C++

```
#include <iostream>
#include <string>
using namespace std;
class Employee{
public:
    Employee(){
        id = 0;
        available = 0;
        age = 0;
        gender = 0;
        hourlyRate = 0.0f;
        hours = 0.0f;
    }
    int available;// 0 - not visible in list of employees, 1 - visible
    int id;
    float hourlyRate;
    float hours;
    string name;
    int gender;// 0 - male, 1 - female
    int age;
    void showDetails(){
        for (int i = 0; i < 79; i++) cout << "***";
        cout << endl;
        cout << "Employee wiht id " << id << " has name: " << name << endl;
        cout << "he has worked " << hours << " with hourlyRate = " << hourlyRate << endl;
        string temp;
        if (gender) temp = "female";
        else temp = "male";
        cout << "Gender: " << temp << " and Age: " << age;
        cout << endl;
        for (int i = 0; i < 79; i++) cout << "***";
        cout << endl;
    }
    float calculateSallary(){
        float result = hourlyRate*hours;
        return result;
    }
};

int main(int argc, char* argv[])
{
    Employee people[10];
    char input[50];
    int choice;
    int minAge, maxAge;
    Employee *current = 0;
    int id = 0;
    while (true){
        choice = 0;
        cout << "Welcome in employee program. Please, enter your choice:" << endl;
        cout << "\t 1 - Add new employee" << endl;
        cout << "\t 2 - Show all of employees by gender" << endl;
        cout << "\t 3 - Show all employees by age range" << endl;
        cout << "\t 4 - Calculate sallary for employee" << endl;
        cout << "\t 5 - Show employee details" << endl;
        cout << "\t 6 - Exit" << endl;
```

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cin >> choice;
switch (choice){
case 1:
for (int i = 0; i < 10; i++){
if (people[i].available == 0) {
id = i;
current = &people[i];
}
}
if (current == 0){
cout << "Sorry, but database is full and you can't add items anymore" << endl;
}
else{
current->available = 1;
current->id = id;
cout << "Enter name: ";
cin.ignore();
getline(cin,current->name);
cout << "Age: ";
cin >> current->age;
cout << "Gender (0 - male, 1 - female): ";
cin >> current->gender;
cout << "Hourly rate:";
cin >> current->hourlyRate;
cout << "Hours worked:";
cin >> current->hours;
cout << endl << endl;
current = 0;
}
break;
case 2:
cout << "Enter 0 to show all male employees and 1 - to show all female employees: ";
cin >> choice;
cout << endl;
if (choice){
cout << "Female employees:" << endl;
for (int i = 0; i < 10; i++){
if (people[i].available == 1 && people[i].gender > 0) {
cout << "ID: " << people[i].id << "\t NAME: " << people[i].name << endl;
}
}
}
else{
cout << "Male employees:" << endl;
for (int i = 0; i < 10; i++){
if (people[i].available == 1 && people[i].gender == 0) {
cout << "ID: " << people[i].id << "\t NAME: " << people[i].name << endl;
}
}
}
cout << endl << endl;
break;
case 3:
cout << endl << endl << "\nEnter minimal age: ";
cin >> minAge;
cout << "Enter maximum age: ";
cin >> maxAge;

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for (int i = 0; i < 10; i++){
    if (people[i].available == 1 && minAge <= people[i].age && people[i].age < maxAge) {
        cout << "ID: " << people[i].id << "\t NAME: " << people[i].name << endl;
    }
}
cout << endl << endl;
break;
case 4:
    cout << "Type employee ID: ";
    cin >> choice;
    if (choice >= 0 && choice < 10 && people[choice].available == 1){
        cout.precision(4);
        cout << "Employees sallary: " << people[choice].calculateSallary() << " USD" << endl<<endl;
    }
    else{
        cout << "Something is wrong with employee ID" << endl;
    }
    break;
case 5:
    cout << "Type employee ID: ";
    cin >> choice;
    if (choice >= 0 && choice < 10 && people[choice].available == 1){
        people[choice].showDetails();
    }
    cout << endl;
    break;
case 6:
    return 0;
    break;
}
}
return 0;
}

```