**University Of Central Punjab**

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**Object Oriented Paradigm**

**Lab Manual (Lab-07)**

**Lab Topic:** Object as Pointer, Array of Objects

**Task :**

Write a class employee which defines employee of a company. An employee has the following attributes

• ID

• Name

• Cell Number

• Address

And certain functions, for example

• Login

• Logout

Now, write main() with the following functionality.

1. Create array of five employees of the company.
2. Create an array of the employees and ask the user to enter the size of this array.
3. Each employee is issued a card and assigned an office.
4. The program shall then loop from 1 to 10 to ask the user if an employee has logged in today. Display a prompt to ask if employee has logged in, and take y for yes and n for no.

After collecting this information, show a report with the following information

#include <iostream>

#include <string>

class Employee

{

public:

int id;

std::string name;

std::string cell\_number;

std::string address;

Employee(int id, std::string name, std::string cell\_number, std::string address)

: id(id), name(name), cell\_number(cell\_number), address(address) {}

void Login()

{

std::cout << name << " logged in." << std::endl;

}

void Logout()

{

std::cout << name << " logged out." << std::endl;

}

};

int main()

{

// Create an array of 5 employees

Employee employees[5] = {

Employee(1, "John", "123-456-7890", "123 Main St"),

Employee(2, "Jane", "234-567-8901", "456 Park Ave"),

Employee(3, "Jack", "345-678-9012", "789 Maple St"),

Employee(4, "Jill", "456-789-0123", "321 Oak Ave"),

Employee(5, "Jim", "567-890-1234", "654 Pine St")

};

// Create an array of employees and ask the user for the size

std::cout << "Enter the number of employees: ";

int num\_employees;

std::cin >> num\_employees;

Employee \*employees2 = new Employee[num\_employees];

// Issue cards and assign offices to the employees

for (int i = 0; i < num\_employees; i++)

{

employees2[i].id = i + 1;

std::cout << "Enter the name for employee " << employees2[i].id << ": ";

std::cin >> employees2[i].name;

std::cout << "Enter the cell number for employee " << employees2[i].id << ": ";

std::cin >> employees2[i].cell\_number;

std::cout << "Enter the address for employee " << employees2[i].id << ": ";

std::cin >> employees2[i].address;

std::cout << "Employee " << employees2[i].id << " was issued a card and assigned an office." << std::endl;

}

// Ask the user if each employee has logged in today

char has\_logged\_in;

for (int i = 0; i < 10; i++)

{

std::cout << "Has employee " << i + 1 << " logged in today (y/n)? ";

std::cin >> has\_logged\_in;

if (has\_logged\_in == 'y')

{

employees2[i].Login();

}

}

return 0;

}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Card serial number | Office | Status |