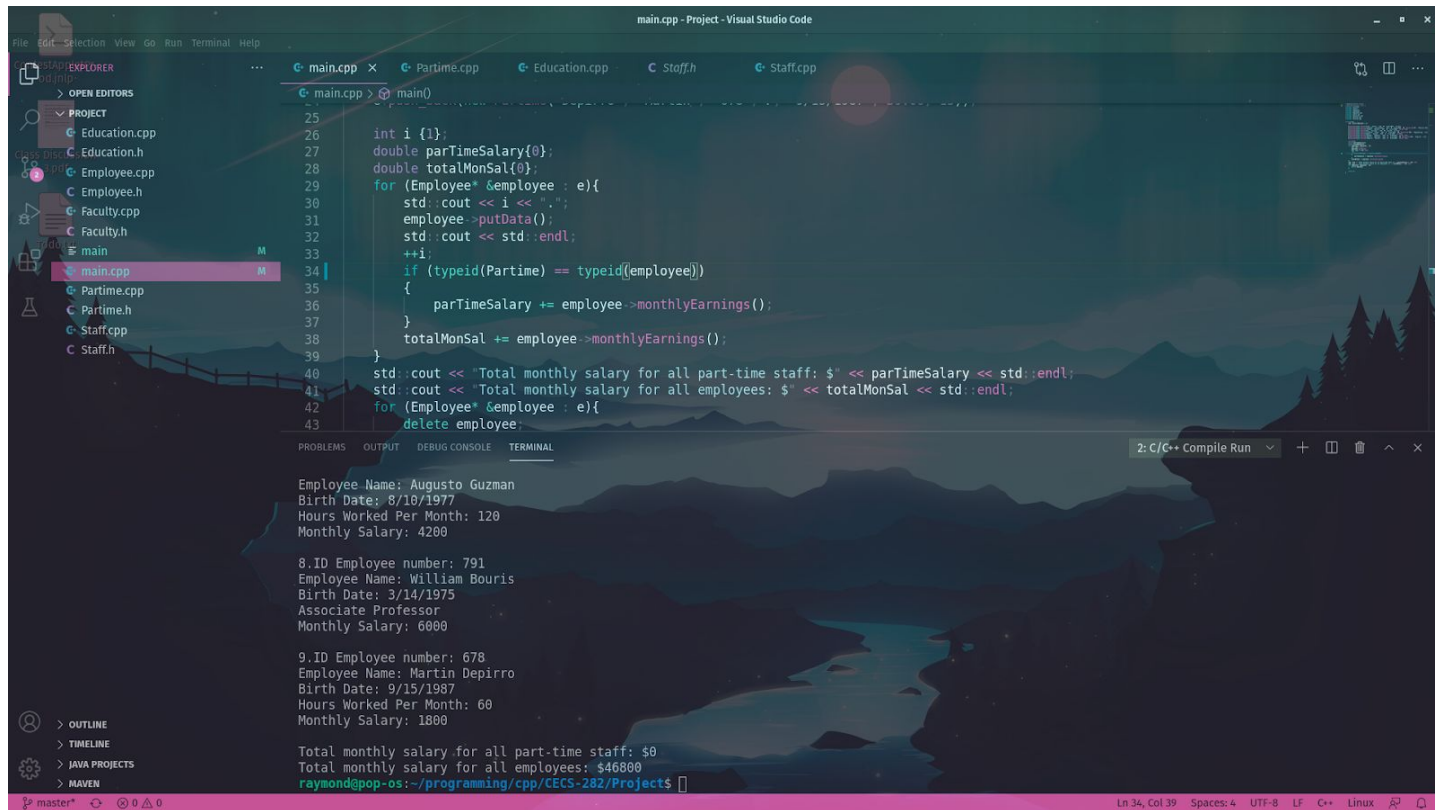


Part 2 of the project was done on my own, so all the code for parts b and c are my own work.

Bugs encountered:



The screenshot shows the Visual Studio Code interface with a C++ project. The Explorer sidebar on the left lists files: Education.cpp, Education.h, Employee.cpp, Employee.h, Faculty.cpp, Faculty.h, main.cpp, Partime.cpp, Partime.h, Staff.cpp, and Staff.h. The main editor displays the code in main.cpp, which includes a loop to process employees and calculate salaries. The code has a bug where the part-time salary is not updated correctly due to a typo in the typeid comparison. The Output window at the bottom shows the program's execution results, including employee data and salary totals.

```
main.cpp - Project - Visual Studio Code
main.cpp x Partime.cpp Education.cpp Staff.h Staff.cpp
main.cpp x main()
25
26 int i {1};
27 double parTimeSalary{0};
28 double totalMonSal{0};
29 for (Employee* &employee : e){
30     std::cout << i << " ";
31     employee->putData();
32     std::cout << std::endl;
33     ++i;
34     if (typeid(Partime) == typeid(employee))
35     {
36         parTimeSalary += employee->monthlyEarnings();
37     }
38     totalMonSal += employee->monthlyEarnings();
39 }
40 std::cout << "Total monthly salary for all part-time staff: $" << parTimeSalary << std::endl;
41 std::cout << "Total monthly salary for all employees: $" << totalMonSal << std::endl;
42 for (Employee* &employee : e){
43     delete employee;
44 }

Employee Name: Augusto Guzman
Birth Date: 8/10/1977
Hours Worked Per Month: 120
Monthly Salary: 4200

8.ID Employee number: 791
Employee Name: William Bouris
Birth Date: 3/14/1975
Associate Professor
Monthly Salary: 6000

9.ID Employee number: 678
Employee Name: Martin Depirro
Birth Date: 9/15/1987
Hours Worked Per Month: 60
Monthly Salary: 1800

Total monthly salary for all part-time staff: $0
Total monthly salary for all employees: $46800
raymond@pop-os: ~/programming/cpp/CECS-282/Project$
```

Total monthly salary for partime was not added, this was because the typeid was given the employee pointer that was not dereferenced.