Main class:

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//Raymond Guevara Lozano
//CECS 282 Project - part 2
#include <iostream>
#include <vector>
#include <typeinfo>
#include <typeindex>
#include "Employee.cpp"
#include "Staff.cpp"
#include "Education.cpp"
#include "Faculty.cpp"
#include "Partime.cpp"
int main(){
   std::vector<Employee *> e;
   e.push back(new Staff("Allen", "Paita", "123", M, "2/23/1959", 50.00));
   e.push back(new Faculty("Andrade", "Christopher", "623", M,
"5/22/1980", AS, Education("MS", "Physical Education", 0)));
   e.push back(new Partime("Aldaco", "Marque", "945", M, "11/24/1988",
20.00, 35));
   e.push back(new Staff("Rios", "Enrique", "789", M, "6/2/70", 40.00));
   e.push back(new Faculty("Johnson", "Anne", "243", F, "4/27/1962", FU,
Education("PhD", "Engineering", 3)));
   e.push back(new Staff("Zapata", "Steven", "456", F, "7/12/1964",
35.00));
   e.push back(new Partime("Guzman", "Augusto", "455", F, "8/10/1977",
35.00, 30));
   e.push back(new Faculty("Bouris", "William", "791", F, "3/14/1975", AO,
Education("PhD", "English", 1)));
   e.push back(new Partime("Depirro", "Martin", "678", F, "9/15/1987",
30.00, 15));
   int i {1};
   double parTimeSalary{0};
  double totalMonSal{0};
   for (Employee* &employee : e) {
       std::cout << i << ".";
       employee->putData();
       std::cout << std::endl;</pre>
```

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++i;
       if (typeid(Partime) == typeid(*employee))
        {
            parTimeSalary += employee->monthlyEarnings();
       totalMonSal += employee->monthlyEarnings();
   }
   std::cout << "Total monthly salary for all part-time staff: $" <<</pre>
parTimeSalary << std::endl;</pre>
   std::cout << "Total monthly salary for all employees: $" << totalMonSal</pre>
<< std::endl;
   for (Employee* &employee : e) {
       delete employee;
   }
   return 0;
}
Runtime output:
1.ID Employee number: 123
Employee Name: Paita Allen
Birth Date: 2/23/1959
Full Time
Monthly Salary: 8000
2.ID Employee number: 623
Employee Name: Christopher Andrade
Birth Date: 5/22/1980
Associate Professor
Monthly Salary: 5000
3.ID Employee number: 945
Employee Name: Marque Aldaco
Birth Date: 11/24/1988
Hours Worked Per Month: 140
Monthly Salary: 2800
4.ID Employee number: 789
Employee Name: Enrique Rios
Birth Date: 6/2/70
Full Time
```

Monthly Salary: 6400

5.ID Employee number: 243 Employee Name: Anne Johnson

Birth Date: 4/27/1962

Full Professor

Monthly Salary: 7000

6.ID Employee number: 456 Employee Name: Steven Zapata

Birth Date: 7/12/1964

Full Time

Monthly Salary: 5600

7.ID Employee number: 455

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: \$8800 Total monthly salary for all employees: \$46800