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|  | **Assignment No. 03 Semester: Spring 2021**  **CS304- Object Oriented Programming** | | **Total Marks: 20**  **Due Date: 19/07/2021**  **Lecture Covered: 23 - 29** |
| **Objective**  The objective of this assignment is:  To give you the idea of practical implementation of C++ Inheritance and Polymorphism.  **Uploading instructions:**   * Your assignment should be in .CPP format (Any other formats like scan images, PDF, zip, doc, rar and bmp etc. will not be accepted). * Save your assignment with your ID (e.g. bc000000000.CPP). * No assignment will be accepted through email.   **Rules for Marking:**  It should be clear that your assignment will not get any credit if:   * The assignment is submitted after due date. * The submitted assignment does not open, execute or file is corrupted. * Your assignment is copied from internet, handouts or from any other student.   (Strict disciplinary action will be taken in this case).  **Lectures Covered:**  This assignment covers Lecture # **23-29.** | | | |
| **Assignment No. 03** | |  | |
| A company pays its employees on a weekly basis. The employees are of two types:   1. Salaried Employees 2. Hourly Employees   **Salaried employees** are paid with a fixed weekly salary, regardless of the number of hours they worked.  **Hourly employees** are paid by the hour and receive overtime pay for all hours worked in excess of 40 hours. If they work less than 40 hours then their salary will be:  **Salary = wage\*hours**  If they work more than 40 hours their salary will be calculated using the given formula:  **Salary = (40\*wage) +((hours-40)\*wage\*1.5)**  Where wage per hour will be 400 PKR.  The company wants to implement a C++ program that performs its payroll calculations. You are required to use concept of Polymorphism to generate the sample output. The detail of data members and member functions for each class is provided in the given class diagram. It is part of your assignment to understand the class diagram and then implement the class diagram into C++ coding.    **Solution Guidelines:**   * You have to use concept of Polymorphism to generate the sample output.   **Sample Output:**      **Best of luck!**  **NOTE:** Do not put any query on MDB about this assignment, if you have any query then email at [cs304@vu.edu.pk](mailto:cs304@vu.edu.pk). Furthermore, if any student found cheating from any other student or from online forums then he/she will be awarded ZERO right away and strict disciplinary action will be taken against the student. | | | |
| **Deadline: Your assignment must be uploaded/submitted on or before 19/07/2021.** | | | |