

## Certified Specialist in Full Stack Development (JAVA)

### Competition 1

1. Write a program by creating an 'Employee' class having the following methods and print the final salary.
  - 1 - 'getInfo()' which takes the salary, number of hours of work per day of employee as parameter
  - 2 - 'AddSal()' which adds Rs 500 to the salary of the employee if it is less than Rs 5000.
  - 3 - 'AddWork()' which adds Rs. 100 to the salary of an employee if the number of hours of work per day is more than 6 hours.
2. A Student is an object in a university management System. Analyze the concept and identify the data members that a Student class should have. Also analyze the behavior of student in a university management System and identify the methods that should be included in Student class.
3. Create a class named Pizza that stores information about a single pizza. It should contain the following:
  - ☐ Private instance variables to store the size of the pizza (either small, medium, or large), the number of cheese toppings, the number of pepperoni toppings, and the number of ham toppings.
  - ☐ Constructor(s) that set all of the instance variables.
  - ☐ Public methods to get and set the instance variables.
  - ☐ A public method named calcCost( ) that returns a double that is the cost of the pizza. Pizza cost is determined by:
    - ☐ Small: \$10 + \$2 per topping
    - ☐ Medium: \$12 + \$2 per topping
    - ☐ Large: \$14 + \$2 per topping
  - ☐ public method named getDescription( ) that returns a String containing the pizza size, quantity of each topping.

Write test code to create several pizzas and output their descriptions. For example, a large pizza with one cheese, one pepperoni and two ham toppings should cost a total of \$22. Now Create a PizzaOrder class that allows up to three pizzas to be saved in an order. Each pizza saved should be a Pizza object. Create a method calcTotal() that returns the cost of order.

