**International Islamic University**

**Department of Computer Science& Software Engineering**

**Assignment No. 2**

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| **Course Title: Object Oriented Programming** | **Date : 22-Oct-2019** |
| **Course Code:** | **Total Marks: 10** |
| **Class: BSCS F18(a & b)** | **Due: 28-Oct-2019** |
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| **Instructor: Ms. Parkha Bashir** |  |

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1. Create a class named Employee with private members firtsName, lastName and empId.

Create parameterized constructor, set and get functions.

Print() function to display employee’s information.

earnings() function to be overridden in the child classes.

1. Create a class SalariedEmployee inherited by Employee with private member weeklySalary.

Create parameterized constructor, set and get and functions ensuring valid salary.

Override earnings() and print() functions

1. Create a class HourlyEmployee inherited by Employee with private members wage and hours.

Create parameterized constructor, set and get functions. Ensure that hoursWorked is less than hours in one week.

Calculate earning on the basis of hours worked. If more than 40 hours spent, calculate overtime with the formula overtime =wage \* 1.5.

Print() hourly worker’s information.

1. Create ComissionEmployee class inherited by Employee with private members grossSales and comissionRate.

Create parameterized constructor, set and get functions. Ensure that hoursWorked is less than hours in one week.

Earnings() calculate the commission by taking the product of commission and grossSalary.

Print() displays comissionEmployee details.

1. Display information of 20 employees and a menu selection mechanism.