**AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**Department of CSE**

**Assignment**

**On**

**Object Oriented Programming**

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| Course no: CSE 1205  Course Title: Object Oriented Programming  Course Teacher: Dr. Md. Shahriar Mahbub | Student’s Name: Saidur Rahman Sujon  ID: \*\*\*\*\*\*\*\*  Section: A (A2)  Submission Date: 08/04/2020 |

**Project Description:**

1. A project is created named “**HospitalMS**” which contains 1 abstract class “**Person**” and 3 public class “**Doctor**”, “**Patient**” and “**Nurse**”.
2. 3 public classes inherit methods ( **talk(), healthStatus(), showInfo(), salary()** )from the “**Person**” class and they contain some additional unique methods respectively which can be only accessed by the current class objects. User can call the function from main class.
3. There is an use of runtime polymorphism particularly about reference creation in the main class.

**Sample:**

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| Input (Inside Inverted Comma’s) | Output |
| Enter 3 doctor's name & Specialized Sectors respectively:  Doctor 1:  “Dr. Farzana Anny”  “Covid-19”  Doctor 2:  “Dr. Alamgir Hossain”  “TB”  Doctor 3:  “Dr. Eva Elfie”  “AIDS”  Enter a Nurse Name:  "Rahima Begum"  Enter Patient's Disease, Name & Age respectively:  “AIDS”  “Johnny Shikder”  “41”  How many days did the patient stay?  “5”  Enter Perday cost:  “5000” | Assigned Doc: Dr. Eva Elfie  Hi, I’m a Doctor.  Doing treatment to: Johnny Shikder,41  Rahima Begum is Taking Care of Patient: Johnny Shikder,41  Info:  Patient's Name: Johnny Shikder  Age: 41Y/O  Disease: AIDS  Assigned Doctor: Dr. Eva Elfie  Assigned Nurse: Rahima Begum  Fees: 25000.0  Doctor's Salary: 10000.0  Nurse's Salary: 5000.0  Tests & Medicines: 10000.0 |