Submitted to: Sir Ali Zaib Submitted by: Alia farooq Reg no#: CS120192083 Title: Exam Management System

For creating program for simple exam management system we will create the following classes and each class will be composed of the following attributes and Methods. 1. Student class: Attributes:  Student Name.  Father Name.  Registration Number.  Contact Number.  E-mail Address.  Home Address (Current & Permanent).  Program.  Department.  Semester.  Properties. Methods:  Set methods for all instance variables.  Get methods for all instance variables.  toString() We can also create a constructer for our class to initialize our instance variables. 2. Course class: Attributes:  Course name.  Course code.  Program name.  Session.  Course registration.

Methods:  Set methods for all instance variables.  Set methods for all instance variables.

 isCourseRegistered().  toString(). We can also create a constructer to initialize all our instance variables in our class.

3. Paper Class: Attributes:  Paper‘s title.  Paper id number.  Course code.  Course in charge.  Decipline.  Semester.  Program names.  Date  Time.  Type of the exam.  Invigilator.  Location.  Number of students.

Note: The Date and Time will be user defined Data Type.

Methods:

 Set methods for all instance variables.  Get methods for all instance variables.  toString().

We can also create a constructer in our class to initialize our instance variables.

4. Faculty Class:

Attributes:

 Faculty Name.  Number of faculty members.  Name of faculty member.  Designation.  Contact Number.  E-mail Address.  Member id.

Methods:  Set methods for all instance variables.  Get methods for all instance variables.  toString().  We can also create a constructer for our class to initialize our instance variables.

5. Marks class: Attributes:  Student Name.  Registration Number.  Subject.  Marks. Methods:  Set methods for all instance variables.  Get methods for all instance variables.  gradeCalculation().[This method will calculate the grade of the student in a subject on the basis of marks of the corresponding subject]  toString().

6. Examination Class: Attributes:  Exam type.  Exam Starting Date.  Exam finishing Date.  Year.  Session. Methods:  Set methods for all instance variables.  Get methods for all instance variables  durationOfExam().  toString(). We can also create constructer in our class to initialize our instance variables.

7. Date Sheet Class: Attributes:

 Subject.  Date.  Time. Methods:  Set methods for all instance variables.

 Get methods for all instance variables.  toString(). We can also create a constructer in our class to initialize our instance variables.

8. Date Class: Attributes:  Day.  Month.  Year. Methods:  toString(). Constructer: Constructer is mandatory in this class.

9. Time Class: Attributes:  Hours.  Minutes.  Seconds. Methods:  toString(). Constructer: Constructer is mandatory in this class too.

10. Main Class:

Attributes: We won’t add any attribute in this class. Methods:  Main Method (public static void main(String[] args). Objects:  We will create the objects of all our classes in our main class.  Then we will print the output.