Kirill Dolgin

In a word document, you will need to briefly explain how you used these concepts into your program. You will need to provide examples from your code.

▪ Method overloading

I have not used method overloading

▪ Method overriding (I used it only once)

Method view\_all\_courses() is defined in class User and both classes Admin and Student inherit the method view\_all\_courses().

But Admin and Student should be able to see different information printed out (Admin should see the students that are registered for each course, while Student shouldn’t have access to that)

Therefore, Student class overrides the method that was inherited from User class and defines it in a different way.

▪ Abstract Class

I have not used abstract classes

▪ Inheritance

Method view\_all\_courses() is defined in class User and both classes Admin and Student inherit the method view\_all\_courses().

▪ Polymorphism

I haven’t used Polymorphism in my design

▪ Encapsulation

I have used methods like:

addStudent(Student a) and

deleteStudent(Student a)

in class Student\_List in order to provide an access and allow a modification of data in Student\_List of all student for objects of other classes (like Admin, and Student)

▪ The concept of ADT (Abstract Data Types)

I used ADT concept to create the following Data Types: Course\_Data, User, Student, Course, and Admin. I created objects of all these types in my program and used them to manage the information exchange between them.