```
public class Student
{
     private int id;
     private String name;
     public Student( String name, int id )
          this.name = name;
          this.id = id;
     }
     public String toString()
          return("Name: " + name + " ID: " + id );
     }
}
public class StudentEmployee extends Student
     private int hours;
     private double wage;
     public StudentEmployee( String name, int id, int hours, double wage )
     {
          super( name, id );
          this.hours = hours;
          this.wage = wage;
     }
     public double earnings()
          return( hours * wage );
     }
     public String toString()
           return( super.toString() + " Earnings: " + earnings() );
     }
}
```

Quiz 3

Instructor: Sandy Irani

- 1. This question refers to the code on the opposite page.
 - (a) Which of the code fragments below would result in a compilation error. You can indicate your answer by cirlcing the corresponding number.

```
i. StudentEmployee se = new StudentEmployee( "Matthew Nguyen", 43214321, 10, 12.5 ); Student s = se;
ii. StudentEmployee se = new StudentEmployee( "Matthew Nguyen", 43214321, 10, 12.5 ); Student s = se; s.earnings();
iii. Student s = new Student( "Sally Chen", 12341234 ); StudentEmployee se = s;
```

(b) Show the output for the following few lines of code:

```
StudentEmployee se = new StudentEmployee( "Matthew Nguyen", 43214321, 10, 12.5 );
Student s = se;
System.out.println( s.toString() );
```

2. Suppose we have a stack **s** that stores strings. Show the output for the following statements, assuming we start with an empty stack.

```
s.push("Ron");
s.push("Dumbledore");
System.out.println( s.pop() );
s.push("Harry");
s.push("Hermione");
System.out.println( s.pop() );
System.out.println( s.pop() );
s.push("Voldemort");
System.out.println( s.pop() );
```