Practical June 7

1) Create a class called `Employee` whose objects are records for an employee. This class will be a derived class of the class `Person` (given below). An employee record has an employee's name (inherited from the class `Person`), an annual salary represented as a single value of type `double`, a year the employee started work as a single value of type `int` and a national insurance number, which is a value of type `String`.

Your class should have a reasonable number of constructors and accessor methods (getters and setters), as well as an `equals` method. Write another class containing a `main` method to fully test your class definition.

```
class Person
{
	private String name;

	public Person()
	{
		name = "No name yet.";
	}
	public Person(String n)
	{
		name = n;
	}
	public void setName(String newName)
	{
		name = newName;
	}
	public String getName()
	{
		return name;
	}
	public void print()
	{
		System.out.println("Name: " + name);
	}
	public boolean equals(Object p)
	{
		return name.equals(p.name);
	}
}
```

2) Your job is to take code snippets from the pool and place them into blank lines of code. You may use the same snippet more than once and you might not need to use all the snippets. Your goal is to make a set of classes that will compile and run together as a program and produce the output given below.

```
public class Rowboat _________  _________ {
   public ____________ rowTheBoat() {
      System.out.print("stroke natasha");
   }
}
```

```
public class _________ {
   private int ___________ ;
   ________ void __________ ( _______ ) {
      length = len;
   }
   public int getLength() {
      _________ __________ ;
   }
   public ____________ move() {
      System.out.print("____________");
   }
}
```

```
public class TestBoats {
   _______ _______ ________ main(String[] args){
      __________ b1 = new Boat();
      Sailboat b2 = new ___________();
      Rowboat _________ = new Rowboat();
      b2.setLength(32);
      b1.___________();
      b3.___________();
      ________.move();
   }
}
```

```
public class ___________ _________ Boat {
   public ________ __________() {
      System.out.print("____________");
   }
}
```

OUTPUT: `drift  drift  hoist sail`