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Question 1

1. Weekdays – class, Friday – object
2. Java – object, Language – class
3. Bird – class, Eagle – object
4. Bob – object, Employee – class
5. Student – class, Alice – object

Question 2

public class ColorGenerator {

public static Color randomColor() {

Random rand = new Random();

int red = rand.nextInt(256);

int green = rand.nextInt(256);

int blue = rand.nextInt(256);

return new Color(red, green, blue);

}

}

Question 3

1) public interface Visible {

boolean makeVisible();

boolean makeInvisible();

}

2) public class VisibilityControl implements Visible {

public boolean makeVisible() {

if (!isVisible) {

isVisible = true;

return true;

} else {

return false;

}

}

public boolean makeInvisible() {

if (isVisible) {

isVisible = false;

return true;

} else {

return false;

}

}

s