Object Oriented Programming - Adam Krechowicz

1 Overriding

```
class Base{
  void metoda(){
    System.out.println("Base method");
  }
}

public class Klasa extends Base{
  void metoda(){
    System.out.println("Derived method");
  }
}
```

Methods in derived class may override methods from base class

2 Overloading

```
public class Klasa{
  void metoda(int p){

  }

  void metoda(boolean p){

  }
}
```

Methods in class may have the same names but needs to have different sets of parameters

3 @Override Annotation

This annotation informs compiler that we want to do overriding and not overwriting or just use different name

4 Zadania do wykonania

1. Create override methods
2. Create overwritten methods

3. Create overwritten methods one in base and one in derived class
4. Test @Override annotation. Try to generate compiler error
5. Try to override and overwrite final method
6. Test override methods after upcasting
7. Try to overwrite methods by changing just the return type
8. Create array of base class and put there derived classes objects. Call overrided methods.
9. What technique is used during object comparison?