**package** constructor;

**public** **class** Constructor {

**public** **static** **void** main(String[] args) {

// create a new instance of the Person class using the default constructor

Person person1 = **new** Person();

System.***out***.println( "person 1:"+ person1.toString());

// create a new instance of the Person class using the parameterized constructor with name and age

Person person2 = **new** Person("John", 30);

System.***out***.println("Person 2: " + person2.toString());

// create a new instance of the Person class using the parameterized constructor with name only

Person person3 = **new** Person("Alice");

System.***out***.println("Person 3: " + person3.toString());

// create a new instance of the Person class using the copy constructor

Person person4 = **new** Person(person2);

System.***out***.println("Person 4: " + person4.toString());

}

}

**class** Person {

**private** String name;

**private** **int** age;

// default constructor

**public** Person() {

**this**.name = "Unknown";

**this**.age = 0;

}

// parameterized constructor with name and age

**public** Person(String name, **int** age) {

**this**.name = name;

**this**.age = age;

}

// parameterized constructor with name only

**public** Person(String name) {

**this**.name = name;

**this**.age = 0;

}

// copy constructor

**public** Person(Person other) {

**this**.name = other.name;

**this**.age = other.age;

}

// getters and setters

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** **int** getAge() {

**return** age;

}

**public** **void** setAge(**int** age) {

**this**.age = age;

}

@Override

**public** String toString() {

**return** "Name: " + **this**.name + ", Age: " + **this**.age;

}

}

