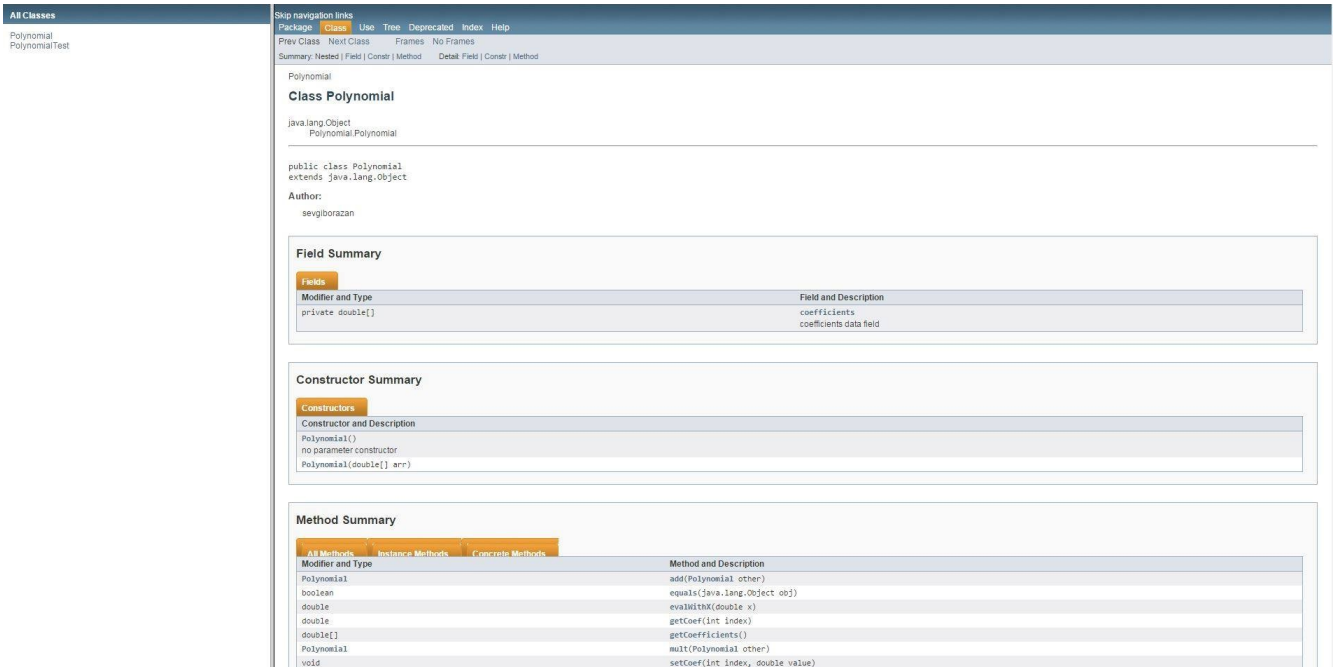
HW09 RAPOR

Bu ödevde bir tane Polynomial Class'ı ve bu Polynomial Class'ını test eden PolynomialTest Class'ı oluşturdum. Javadoc çıktısı aşağıdaki gibidir.



All Classes

Polynomial
PolynomialTest

Skip navigation links

Package | Class | Use | Tree | Deprecated | Index | Help

Prev Class | Next Class | Frames | No Frames

Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

Polynomial

Class Polynomial

java.lang.Object
  Polynomial.Polynomial

```
public class Polynomial
extends java.lang.Object
```

Author:

sevgiborazan

Field Summary

Fields

Modifier and Type	Field and Description
private double[]	coefficients coefficients data field

Constructor Summary

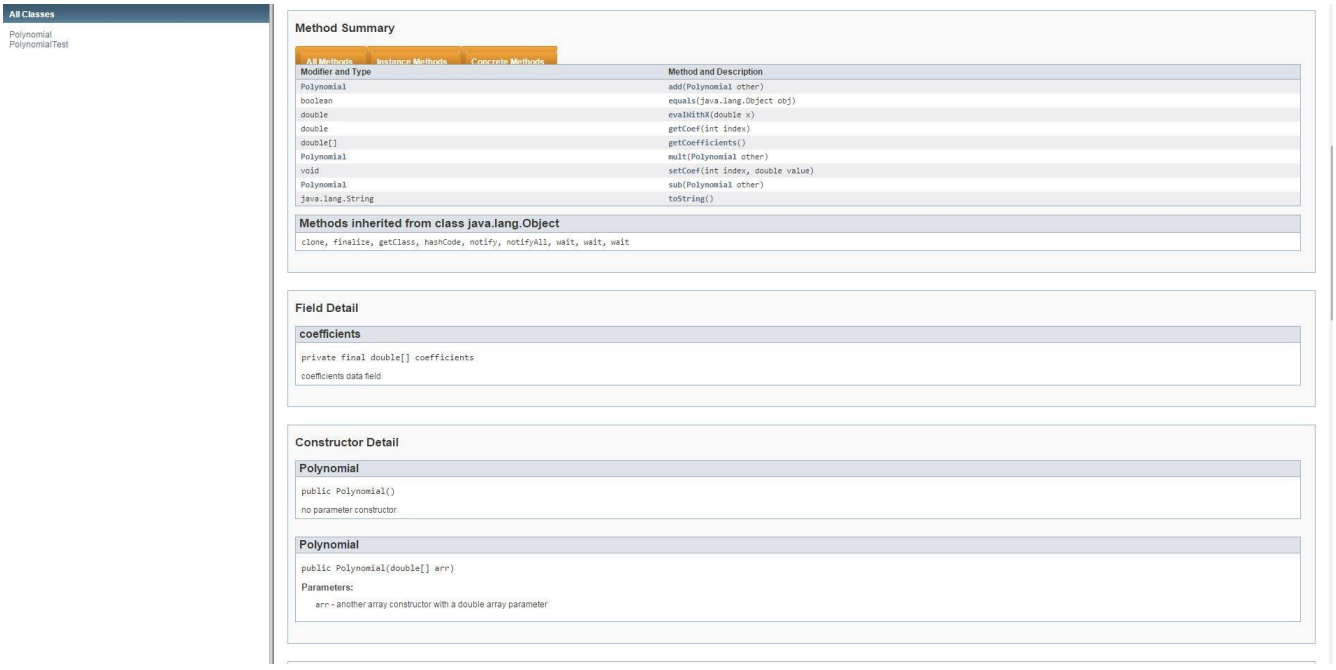
Constructors

Constructor and Description
Polynomial() no parameter constructor
Polynomial(double[] arr)

Method Summary

All Methods | Instance Methods | Concrete Methods

Modifier and Type	Method and Description
Polynomial	add(Polynomial other)
boolean	equals(java.lang.Object obj)
double	evalWithX(double x)
double	getCoef(int index)
double[]	getCoefficients()
Polynomial	mult(Polynomial other)
void	setCoef(int index, double value)



All Classes

Polynomial
PolynomialTest

Method Summary

All Methods | Instance Methods | Concrete Methods

Modifier and Type	Method and Description
Polynomial	add(Polynomial other)
boolean	equals(java.lang.Object obj)
double	evalWithX(double x)
double	getCoef(int index)
double[]	getCoefficients()
Polynomial	mult(Polynomial other)
void	setCoef(int index, double value)
Polynomial	sub(Polynomial other)
java.lang.String	toString()

Methods inherited from class java.lang.Object

clone, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

coefficients

```
private final double[] coefficients
```

coefficients data field

Constructor Detail

Polynomial

```
public Polynomial()
```

no parameter constructor

Polynomial

```
public Polynomial(double[] arr)
```

Parameters:

arr - another array constructor with a double array parameter

All Classes

Polynomial
PolynomialTest

Method Detail

getCoefficients

```
public double[] getCoefficients()
```

Returns:

all private coefficients

setCoef

```
public void setCoef(int index,
                    double value)
```

Parameters:

`index` - is which coefficient

`value` - is new coefficient value

getCoef

```
public double getCoef(int index)
```

Parameters:

`index` - is which coefficient

Returns:

value of coefficient

evalWithX

```
public double evalWithX(double x)
```

Parameters:

`x` - evaluate the polynomial

Returns:

result

add

```
public Polynomial add(Polynomial other)
```

Parameters:

`other` - will be added to object

Returns:

addition of two polynomials checks if polynomial degrees are equal or not then calculates result

All Classes

Polynomial
PolynomialTest

`other` - will be added to object

Returns:

addition of two polynomials checks if polynomial degrees are equal or not then calculates result

sub

```
public Polynomial sub(Polynomial other)
```

Parameters:

`other` - will be added to object

Returns:

substraction of two polynomials checks if polynomial degrees are equal or not then calculates result

mult

```
public Polynomial mult(Polynomial other)
```

Parameters:

`other` - as multiplier

Returns:

result of multiply operation

toString

```
public java.lang.String toString()
```

Overrides:

`toString` in class `java.lang.Object`

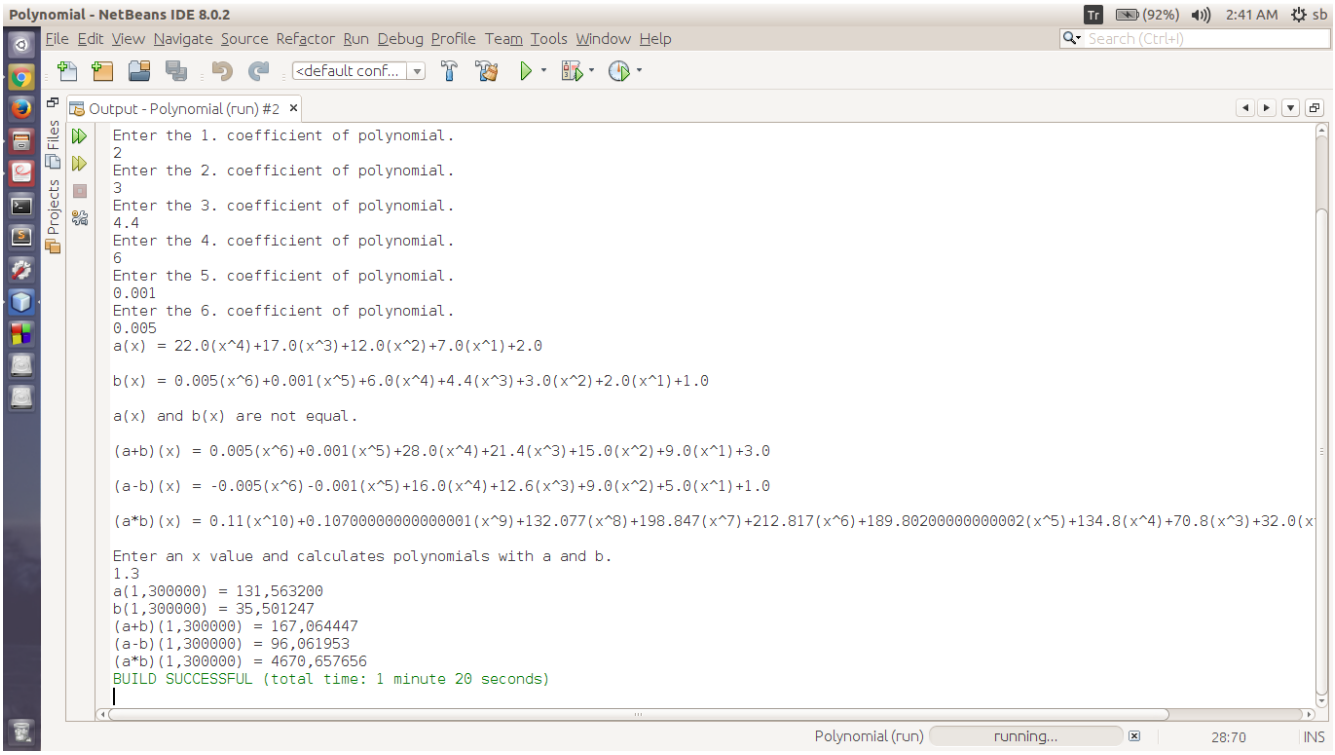
equals

```
public boolean equals(java.lang.Object obj)
```

Overrides:

`equals` in class `java.lang.Object`

Tüm methodları test edince aşağıdaki gibi output oluştu.



Sevgi BORAZAN
111044058