Polymomial Calculator

Requirement	Grading
 Use an object-oriented programming design (use encapsulation, define appropriate classes e.g., Polynomial and optionally Monomial). Use Map for modelling the Polynomial. How Map I Polynomial: Use foreach instead of for (int i=0) polynomial: < \(\text{cutry} \) _ 3 < \(\text{moral} \) Implement a graphical user interface using Java Swing or JavaFX. Muse > via Implement the addition and subtraction operations Polynomial: 19,34 Implement classes with maximum 300 lines (except the UI classes) and methods with maximum 30 lines. Use the Java naming conventions (see link). Good quality documentation addressing all sections from the documentation template. 	5 p
Good organization of the source code	1 p
Implement the multiplication operation 49	0.5 p
Implement the division operation by Goly Nomial	1 p
Implement the derivative operation 93	0.5 p
Implement the integration operation	0.5 p
Use regular expressions and pattern matching for extracting the polynomial coefficients	0.5 p
Use Junit for testing Arc test. java com.	1 p

> Test Poly monnial Operations

Constant

Consta

com. dutamodels

-> Monomial

o degree, coefficient

addition, subtraction, multiplication, division, devivative, in legisl,

to String - opiseara no. reale in 2 recincule. set Rounding Hoods.

aici tratiz cazurile pontru

· coust, getters, retters

afizaroa 10, cod.0, 11, cod 1.

-> Polynomia 1

whash Hap < Integer, Monomial > poly, remain der

... eratnemela illarezo. ...

- efectuer operation intre monoume, utilizand op definite in classe bourn >multiplication: 2 forwari ce iour fiecare alement în parte spatialistist of nex Power alement in parte spatialistist of nex Power about polinome of vision: >determina coef. Maxim conquestion about polinome > A = publimental "Înaponti tor" / coef. Max > B = polinomal Deîmpontit - A

> polinomal Deîmpontit e în locuit de B

ns to String Strings) -> expiseerat restel saw polinomed proprie zis

print come se realizate parsaven sirului în elem. Poly nomici

· Com. mrc

o View > ini+Element ol)

→ Set Color()

→ set Teon()

→ addElements to Panels ()

→ setEayout ForPanels ()

→ Set Sextformed ()

o Controller

>> metade /

noperation => en fct. de Operation Type, este apelation mutada coverp. Aperation die dotallade

Show Message Dialog => afisecut evoville intr-s mout ferentra

-> class interms -> pt juylementarea metodai action Performed