*Logic Specification Template*

|  |  |  |  |
| --- | --- | --- | --- |
| **Student** | Patricia Palula Aguilar | **Program #** | 6 |

|  |  |
| --- | --- |
| **Class Name** | main |

|  |  |
| --- | --- |
| **Method Name** | validarName |

|  |  |
| --- | --- |
| **Parameters** | name variable a validar |

Diagram

Description automatically generated

|  |  |
| --- | --- |
| **Method Name** | obtenerSignificancia |

|  |  |
| --- | --- |
| **Parameters** | r coeficiente de correlacion |
|  | N número mainde parejas |

Diagram

Description automatically generated

|  |  |
| --- | --- |
| **Class Name** | LeerArchivo |

|  |  |
| --- | --- |
| **Method Name** | fillArrays |

|  |  |
| --- | --- |
| **Parameters** | name string |
|  | xk variable x dada |
|  | arrX arreglo con x |
|  | arrY arreglo con y |

Diagram

Description automatically generated

|  |  |
| --- | --- |
| **Class Name** | Regression |

|  |  |
| --- | --- |
| **Method Name** | calcularYk |

|  |  |
| --- | --- |
| **Parameters** | n número de parejas de datos |
|  | xK x dada |
|  | r coeficiente de correlación |
|  | r2 coeficiente de correlación |
|  | b0 parámetro de regresión lineal |
|  | b1 parámetro de regresión lineal |
|  | yk predicción mejorada |
|  | sig significancia |
|  | ran rango |
|  | LS límite superior |
|  | LI límite inferior |

Diagram

Description automatically generated

|  |  |
| --- | --- |
| **Class Name** | Simpson |

|  |  |
| --- | --- |
| **Method Name** | calcularP |

|  |  |
| --- | --- |
| **Parameters** | x variable x |
|  | dof grados de libertad |
|  | w resultado de dividir x entre n |
|  | n número de intervalos (par) |
|  | p guarda el resultado |
|  | sum sumatoria de las F() |

Diagram

Description automatically generated

|  |  |
| --- | --- |
| **Method Name** | obtenerPf |

|  |  |
| --- | --- |
| **Parameters** | x variable x |
|  | dof grados de libertad |
|  | w resultado de dividir x entre n |
|  | n número de intervalos (par) |
|  | pI p inicial de la comparación |
|  | pF p final de la comparación |

Diagram

Description automatically generated

|  |  |
| --- | --- |
| **Method Name** | imprimirResul |

|  |  |
| --- | --- |
| **Parameters** | x variable x final |
|  | dof grados de libertad |
|  | p p dada |

Diagram

Description automatically generated

|  |  |
| --- | --- |
| **Class Name** | FunctionT |

|  |  |
| --- | --- |
| **Method Name** | gamma |

|  |  |
| --- | --- |
| **Parameters** | num numero para el cual calcular gamma |

**Diagram

Description automatically generated**

|  |  |
| --- | --- |
| **Method Name** | gammaInt |

|  |  |
| --- | --- |
| **Parameters** | num numero para el cual calcular gamma |

**Diagram

Description automatically generated**

|  |  |
| --- | --- |
| **Method Name** | gammaNoInt |

|  |  |
| --- | --- |
| **Parameters** | num numero para el cual calcular gamma |

**Diagram

Description automatically generated**

|  |  |
| --- | --- |
| **Method Name** | calculoParcialFun |

|  |  |
| --- | --- |
| **Parameters** | dof grados de libertad |
|  | funParcial calculo parcial de la función |

**Diagram

Description automatically generated**

|  |  |
| --- | --- |
| **Method Name** | calcularFun |

|  |  |
| --- | --- |
| **Parameters** | x variable x |
|  | dof grados de libertad |
|  | funParcial calculo parcial de la función |
|  | functionResult f(x) |

**Diagram

Description automatically generated**