*Logic Specification Template*

|  |  |  |  |
| --- | --- | --- | --- |
| **Student** | Patricia Palula Aguilar | **Program #** | 5 |

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

|  |  |
| --- | --- |
| **Method Name** | validarVar |

|  |  |
| --- | --- |
| **Parameters** | var variable a validar |

Diagram

Description automatically generated

|  |  |
| --- | --- |
| **Method Name** | obtenerX |

|  |  |
| --- | --- |
| **Parameters** | x variable x |
|  | dof grados de libertad |
|  | simpsonC objeto para calcular p |

Diagram, schematic

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**