```
------------------------------------------------
------------Interpolacion de Lagrange-------------
------------------------------------------------


  X  [  94.0 | 205.0 | 371.0 ]
 f(x)[ 929.0 | 902.0 | 860.0 ]

x = 251.0

Y(x)=[
929.0 * ((x-205.0)/(94.0 - 205.0))((x-371.0)/(94.0 - 371.0)) +
902.0 * ((x-94.0)/(205.0 - 94.0))((x-371.0)/(205.0 - 371.0)) +
860.0 * ((x-94.0)/(371.0 - 94.0))((x-205.0)/(371.0 - 205.0))
]

Resultado:
Pnx=890.5561165532

************************************************************
              Presione ENTER para ir al menu...
************************************************************
```

```
-----------------------------------------------------
------------Interpolacion de Neville-------------
-----------------------------------------------------


  X  [   -2.0  |   -1.0  |   0.0   |   1.0   |   2.0   ]
 f(x)[ 0.11111 | 0.33333 |   1.0   |   3.0   |   9.0   ]

x = 0.5

--------
K=1
--------
f[0][1] = 0.66666
f[1][1] = 1.333335
f[2][1] = 2.0
f[3][1] = -0.0
--------
K=2
--------
f[0][2] = 1.5000037499999999
f[1][2] = 1.83333375
f[2][2] = 1.5
--------
K=3
--------
f[0][3] = 1.7777787499999997
f[1][3] = 1.666666875
--------
K=4
--------
f[0][4] = 1.7083338281249998
------------------------------------------------------------

 i        Xi       |     f(Xi)     |   Î”0f(Xi)   |   Î”1f(Xi)   |   Î”2f(Xi)   |   Î”3f(Xi)   |   Î”4f(Xi)
 0 [     -2.0      |    0.11111    |    0.11111    |    0.66666    |  1.50000375  |  1.77777875  | 1.7083338281 ]
 1 [     -1.0      |    0.33333    |    0.33333    |   1.333335    |  1.83333375  | 1.666666875  |      0.0     ]
 2 [      0.0      |      1.0      |      1.0      |      2.0      |      1.5     |      0.0     |      0.0     ]
 3 [      1.0      |      3.0      |      3.0      |      0.0      |      0.0     |      0.0     |      0.0     ]
 4 [      2.0      |      9.0      |      9.0      |      0.0      |      0.0     |      0.0     |      0.0     ]

Resultado:
Pnx=1.7083338281
```

```
------------------------------------------------------------

-------------------------------------------------
------------Interpolacion de Newton--------------
-------------------------------------------------


  X  [   0.1   |   0.3   |   0.5   |   0.7   |   0.9   |   1.1   |   1.3   ]
 f(x)[  0.9975 | 0.97763 | 0.93847 |  0.8812 | 0.80752 | 0.71962 | 0.62009 ]

x = 0.8


 i         Xi      |     f(Xi)     |    Î”0f(Xi)   |    Î”1f(Xi)   |    Î”2f(Xi)   |    Î”3f(Xi)   |    Î”4f(Xi)   |    Î”5f(Xi)
 0 [      0.1      |     0.9975    |    -0.09935   |   -0.241125  |  0.0245833333 |  0.0135416667 |   -7.8125E-4  | -0.0013020833 ]
 1 [      0.3      |    0.97763    |    -0.1958    |   -0.226375  |  0.0354166667 |  0.0127604167 |  -0.00234375  |      0.0      ]
 2 [      0.5      |    0.93847    |    -0.28635   |   -0.205125  |    0.045625   |  0.0104166667 |      0.0      |      0.0      ]
 3 [      0.7      |     0.8812    |    -0.3684    |    -0.17775  |  0.0539583333 |      0.0      |      0.0      |      0.0      ]
 4 [      0.9      |    0.80752    |    -0.4395    |   -0.145375  |      0.0      |      0.0      |      0.0      |      0.0      ]
 5 [      1.1      |    0.71962    |    -0.49765   |      0.0     |      0.0      |      0.0      |      0.0      |      0.0      ]
 6 [      1.3      |    0.62009    |      0.0      |      0.0     |      0.0      |      0.0      |      0.0      |      0.0      ]

Y(x)=[
0.9975 +
-0.09935 * ( x - 0.1 ) +
-0.241125 * ( x - 0.1 )( x - 0.3 ) +
0.0245833333 * ( x - 0.1 )( x - 0.3 )( x - 0.5 ) +
0.0135416667 * ( x - 0.1 )( x - 0.3 )( x - 0.5 )( x - 0.7 ) +
-7.8125E-4 * ( x - 0.1 )( x - 0.3 )( x - 0.5 )( x - 0.7 )( x - 0.9 ) +
-0.0013020833 * ( x - 0.1 )( x - 0.3 )( x - 0.5 )( x - 0.7 )( x - 0.9 )( x - 1.1 )
]

Resultado:
Pnx=0.8462850977
```