e reccido 12 E = no fot ne fr N= Est 67 coafiqueaciones posibles escoque no particulas que tensan configuración to esto es una cambinación N; - N; 6) 1n(D) = (n (N) - N - 1n(Ao)) - (n(A)) -NIn(N) - (N +06+07) - la (no).00 - la(na)-0-1 = NIa(N)-N-Enilacni) 5 - Kb - (Nh(N)-N-Enclosai)) B) x = 01 01 = xN 00 = N-01 = N-8N=N(1-x) 505titum95 5=Kb[NIn(N) - N(1-7) In((x-1)N) - Nx In(Nx)

5= KB[NIO(N) - NC1-x(IO(x-7) + IO(N) - NY IO(N) - NY IO(N) 5= to [NIO(N)-NO-X) M(x-12+NO-1)-IO(N) - NXM(N) -NXMOX) A A IN(N) (N-N(1-x) - Nx) = N61-1-x) - Nx=0 5=K6[NIN(N)-NIO(N)+NXIN(N)-NXIO(N)-N(1-X)(0(-x)-NXIO() = 5 = K6 T - NC1-X) In(1-X) - NX In(X) 5= x6 NI - C1-X) 10 (1-X) - PX 10(X)] 6= [K6]-N[MIACX) + (1-x)[A(1-x)]) 5= + FON [x(n(x)+(T-x)h(1-x)] E = noco + cre1 + -N(1-4) to + 1/61 E = NCI+7 GO + XN F1 F= NE- NXED + XNE1 ENEO+ Nx (en-Eo) E- NEO = NX (E1-GO) x= (E- NEO) N(E1-60)

```
[5] import numpy as np import matplotlib.pyplot as plt
_{0:} [6] funcion=lambda x:-1*(x*np.log(x)+(1-x)*np.log(1-x))
// [25] y=np.linspace(0,1,100)
plt.plot(y,funcion(y))

<ipython-input-6-9347c17d1bec>:1: RuntimeWarning: divide by zero encountered in log
    funcion=lambda x:-1*(x*np.log(x)+(1-x)*np.log(1-x))
    <ipython-input-6-9347c17d1bec>:1: RuntimeWarning: invalid value encountered in multiply
    funcion=lambda x:-1*(x*np.log(x)+(1-x)*np.log(1-x))
[<matplotlib.lines.Line2D at 0x7852066948b0>]
                0.7
                0.6
                0.5
                0.4
                0.3
                0.2
                0.1
                        0.0
                                             0.2
                                                                 0.4
                                                                                      0.6
                                                                                                          0.8
```

✓ Conectado a del backend de Google Compute Engine que utiliza Python 3

25 =- KON [10C+)+7 - 10(1-x)-1] -- KON[ IO(x) - IO(2-x)] X= (E-NEO) Ga-ca)N AEN T- I ME.N -KON [in ( ) - C KOT +7 X(T) lia 5(0) = N+65 [0.10(0) + 11/2(-1)] T-200 X-5-1 5(1) - + K6 N [ = la(1) + (11) 19(11) = -K6N [ In (V= V\_2) (n(=)=-11a(2) =-K6N [ (1/2)] +K6N [la (2)] 5(2) = toN n(2)

1-5= AR IAC VA AS= 1R 10 (20) 15= 1810 (2) Contaiams un gas tatti Ideal el campo sepando de la carridad de moses, mientes que la entropio en una + Intintio debende de Kb, podemos decil que su confortantedo es similar