```
In [36]: import math
         e = 4.80*pow(10, -10)
         c = 3.00*pow(10,10)
         m_e = 9.11*pow(10, -28)
         z = 2.00
         g_0 = 2
         f = 0.4164
         tau = 6.265*pow(10,8)
         v_0 = 2.46607*pow(10,15)
         x = 0.1
         n h = 0.1
         pie = 3.14
         d1 = pow(10, 14)
         d2 = pow(10, 18)
         d3 = pow(10, 21)
         v = 2.46771*pow(10,15)
In [61]: v = 2.46771*pow(10,15)
         print(v)
         24677100000000000.0
In [37]: k1= e*e*f*n h/4*pie*m e*c
         print(k1)
         2.058270663168e-37
In [38]: k2 = (1-x)*g_0/z
         print(k2)
         0.9
In [39]: k3= k1*k2
         print(k3)
         1.8524435968512e-37
In [89]: k4= tau/((v-v_0)*(v-v_0)+ (tau/4*pie)*(tau/4*pie))
         print(k4)
                                                     Traceback (most recent call last)
         <ipython-input-89-5416df215190> in <module>
               1 k4= tau/((v-v_0)*(v-v_0)+ (tau/4*pie)*(tau/4*pie))
         ----> 2 print(k4)
         TypeError: 'float' object is not callable
```

```
In [41]: a = k3*k4
         print(a)
         4.314975494724473e-53
In [88]: a = k3*k4
         print(a)
         TypeError
                                                    Traceback (most recent call last)
         <ipython-input-88-b8a51ec34bd6> in <module>
               1 a = k3*k4
         ----> 2 print(a)
         TypeError: 'float' object is not callable
In [85]: |import decimal
         decimal.getcontext().prec = 100
         p= pow(decimal.Decimal(math.e), decimal.Decimal(d1))
         Overflow
                                                    Traceback (most recent call last)
         <ipython-input-85-01b999cd3d66> in <module>
               1 import decimal
               2 decimal.getcontext().prec = 100
         ----> 3 p= pow(decimal.Decimal(math.e), decimal.Decimal(d1))
         Overflow: [<class 'decimal.Overflow'>]
In [90]: q= pow(1/math.e, a)
In [91]: h = pow(math.e, d1)
         OverflowError
                                                    Traceback (most recent call last)
         <ipython-input-91-d49668fcf7fb> in <module>
         ----> 1 h = pow(math.e, d1)
         OverflowError: (34, 'Result too large')
```

```
In [44]: import decimal
    decimal.getcontext().prec = 100
    a = decimal.Decimal(4.314975494724473e-53)
    d1 = pow(10, 14)
    I = pow(math.e, (a)*d1)
    print(I)
```

```
In [66]:
    d1= pow(10, 14)
    I = math.exp(-(k3*k4)*d1)
    print(I)
    1.0
```

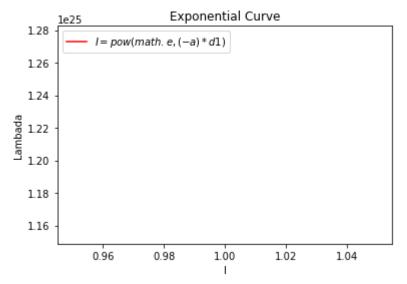
```
In [68]: x1= math.exp(k4)
print(x1)
```

1.00000000000000000

```
In [81]: import matplotlib.pyplot as plt
plt.plot(I,lambada,'r-',label = r'$I = pow(math.e, (-a)*d1)$')

plt.xlabel('I')
plt.ylabel('Lambada')
plt.title('Exponential Curve')
plt.legend(loc='upper left')

plt.show()
```



```
In [74]: x = int(math.exp(k3))
print(x)
```

TypeError: 'float' object is not callable

```
In [82]: import decimal
lambada = 3.00*pow(10,10)/2.46771*pow(10,15)
print(decimal.Decimal(lambada))
```

TypeError: 'float' object is not callable

In [ ]:	
In [ ]:	
In [ ]:	