```
Script started on 2023-10-12 11:22:12-05:00 [TERM="xterm-256color" TTY="/dev/pts/0" COLUMNS="67" LINES="54"]
c[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CLA[00m$ cat -n FallingS[KDistance.py
[?2004l
     1  #Tyler Sabin
     2  #October 12, 2023
     3  #Section 006
     4
     5  def falling_distance(secs):
     6      g = 9.8
     7      distance = (1/2) * (g * (secs ** 2))
     8      return distance
     9  print('Time','Falling Distance',sep='\t')
    10  print('----------------------------')
    11
    12  def main():
    13      for num in range(1,11):
    14          total = falling_distance(num)
    15          print(f'{num:<10}{total:>5.2f}')
    16
    17  main()[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CLA[00m$ python3.10
FallingDistance.py
[?2004l
Time    Falling Distance
----------------------------
1          4.90
2         19.60
3         44.10
4         78.40
5         122.50
6         176.40
7         240.10
8         313.60
9         396.90
10        490.00
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CLA[00m$ cat -n KineticEnergy.py
[?2004l
     1  #Tyler Sabin
     2  #October 12, 2023
     3  #Section 006
     4
     5  def kinetic_energy(mass,velocity):
     6      ke = (1/2) * (mass * (velocity ** 2))
     7      return ke
     8
     9  def main():
    10      m = int(input("Enter the mass of the object in kilograms: "))
    11      v = int(input("Enter the object velocity in meters per second: "))
    12      joules = kinetic_energy(m,v)
    13      print(f'Kinetic Energy is: {joules:.2f} joules')
    14
    15  main()[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CLA[00m$ python3.10
KineticEnergy.py
[?2004l
Enter the mass of the object in kilograms: 35
Enter the object velocity in meters per second: 125
Kinetic Energy is: 273437.50 joules
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CLA[00m$ exit
[?2004l
exit

Script done on 2023-10-12 11:23:10-05:00 [COMMAND_EXIT_CODE="0"]
```