8/29/22, 12:52 PM 1_1

```
In [3]: from math import *
    m=0
    a=2.0
    s=1.0
    f=1/(sqrt(2*pi)*a)*exp(-0.5*((s-m)/a)**2)
    print(f)
# RA2011004010051 Kunal Keshan ECE A
```

0.17603266338214976

```
In [5]: from math import *
y1=1
    deg=float(input("Enter the angle="))
g=9.81
    u=float(input("Enter the initial velocity="))
x=float(input("Enter the value of x="))

rad=(pi/180)*deg
u=u/3.6
y=(x*tan(rad))+((g*(x**2))/(2*(u**2)*(cos(rad)**2)))+y1
print("The trajectory of the ball is=", y)
# RA2011004010051 Kunal Keshan ECE A
```

Enter the angle=45
Enter the initial velocity=10
Enter the value of x=2.5
The trajectory of the ball is= 11.44609999999998

```
In [4]: from math import *
dc=0.2
ad=1.2
a=pi*0.11**2
m=0.43
g=9.81
Fg=m*g
sc=1000.0/3600
v=120*sc
fd=0.5*dc*ad*a*v**2
print("For hard kick velocity=", v, "the gravitational force is", Fg, "and the drag is v1=10*sc
fd1=0.5*dc*ad*a*v1**2
print("For soft kick velocity=", v1, "the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the drag if the gravitational force is", Fg, "and the gravitatio
```