```
import random
import math
flag = 0
vf = 20
time = 0
xf = random.randint(1,1000)
yf = random.randint(1,1000)
xb = random.randint(1,1000)
yb = random.randint(1,1000)
while flag == 0:
  distance = math.sqrt((xf-xb)**2 + (yf - yb)**2)
  if distance <= 100:
   print("The Bomber Plane Shot Down at time", time)
   flag = 1
  elif distance > 1000:
   print("The Bomber Plane Escape at time ",time)
   flag = 1
  else:
   xf = xf + vf*(xb-xf)/distance
   yf = yf + vf*(yb-yf)/distance
   xb = random.randint(1,1000)
   yb = random.randint(1,1000)
    time+=1
```