Console

Startup execution:
  loading initial environment

--> XB = [80,90,99,10,116,125,133,141,151,160,169,179,180] // coordinates of bomber
 XB =

        column 1 to 11

   80.   90.   99.   10.   116.   125.   133.   141.   151.   160.   169.

        column 12 to 13

   179.   180.

--> YB = [0,-2,-5,-9,-15,-18,-23,-29,-28,-25,-21,-20,-17] // coordinates of bomber
 YB =

   0. -2. -5. -9. -15. -18. -23. -29. -28. -25. -21. -20. -17.

--> vel = 20 // velocity
 vel =

   20.

--> YF = 50 // initial conditions for fighter
 YF =

   50.

--> XF = 0 // initial conditions for fighter
 XF =

   0.

--> for i = 1:12
  >   dist = sqrt((YB(i) - YF)^2 + (XB(i) - XF)^2) // distance between target and persuer
  >   s = ((YB(i)-YF)/dist)
  >   c = ((XB(i)-XF)/dist)
  >   XF = XF + vel*c
  >   YF = YF + vel*s
  >   if(dist<=10) then
  >   disp("Bomber Engaged")

```
 >         disp(i-1)
 >     end
 > end
dist  =

  94.339811
s  =

 -0.5299989
c  =

  0.8479983
XF  =

  16.959966
YF  =

  39.400021
dist  =

  83.957181
s  =

 -0.4931088
c  =

  0.8699677
XF  =

  34.359320
YF  =

  29.537846
dist  =

  73.289019
s  =

 -0.4712554
c  =

  0.8819968
XF  =

  51.999256
YF  =
```

```
  20.112738
dist  =

  51.102730
s  =

 -0.5696905
c  =

 -0.8218593
XF  =

  35.562069
YF  =

  8.7189287
dist  =

  83.862079
s  =

 -0.2828326
c  =

  0.9591693
XF  =

  54.745455
YF  =

  3.0622770
dist  =

  73.343852
s  =

 -0.2871717
c  =

  0.9578791
XF  =

  73.903037
YF  =
```

-2.6811565
dist =

62.492451
s =

-0.3251408
c =

0.9456656
XF =

92.816350
YF =

-9.1839719
dist =

52.099320
s =

-0.3803510
c =

0.9248422
XF =

111.31319
YF =

-16.790992
dist =

41.239355
s =

-0.2718037
c =

0.9623527
XF =

130.56025
YF =

-22.227065

```
dist  =

   29.570055
s  =

  -0.0937751
c  =

   0.9955934
XF  =

   150.47212
YF  =

  -24.102567
dist  =

   18.785856
s  =

   0.1651544
c  =

   0.9862677
XF  =

   170.19747
YF  =

  -20.799479
dist  =

   8.8387602
s  =

   0.0904515
c  =

   0.9959009
XF  =

   190.11549
YF  =

  -18.990450
```

"Bomber Engaged"

11.