```
1 using Microsoft.Xna.Framework;
 2 using System;
 3 using System.Collections.Generic;
 4 using System.Text;
 5
 6 namespace GameDemo.Shared
 7
 8
       /// <summary>
 9
       /// different movement for the enemies
10
       /// </summary>
       public class Movement
11
12
13
       {
14
            public static Vector2 SinWave(Vector2 position,double magnitude, double ₹
               frequency,GameTime gameTime,ref float timeOnScreen)
15
            {
                float transform;
16
                timeOnScreen -= 0.007F;
17
18
19
                transform = (float)(Math.Sin((double)(timeOnScreen*50) * frequency) >
                   * magnitude);
20
                position.Y += transform;
21
                return position;
22
            }
23
            public static Vector2 Bouncing(Vector2 position,float
                                                                                      P
              frequency ,GameTime gameTime, ref float timeOnScreen)
24
            {
                if (position.Y <500)</pre>
25
26
                {
27
                    timeOnScreen += 0.01F*frequency;
28
                }
29
                else if(position.Y >570)
30
                timeOnScreen -= 0.01F*frequency*2;
31
32
                float transform = position.Y * timeOnScreen/30;
33
                position.Y = transform;
34
                return position;
35
            }
36
       }
37 }
38
```