```
using System.Collections;
using System.Collections.Generic;
using UnityEngine;
public class GameManager : MonoBehaviour
   public int currentGameLevel;
   public GameObject asteroidPrefab;
   // Start is called before the first frame update
   void Start()
    {
        currentGameLevel = 0;
        /*Camera is positioned at 0,30,0
        * Facing towards 0,0,0 with 0,0,1 as its 'up' axis */
        Camera.main.transform.position = new Vector3(0, 30, 0);
        Camera.main.transform.LookAt(new Vector3(0, 0, 0), new Vector3(0, 0, 1));
        StartNextLevel();
   void Update()
    {
   void StartNextLevel()
    {
        currentGameLevel++;
        //Number of asteroids depends on game level
        int numberOfAsteroids = currentGameLevel * 5;
        //instantiate a set of asteroids towards the edges of the visible screen using a
        for (int i = 0; i < numberOfAsteroids; i++)</pre>
            GameObject asteroid = GameObject.Instantiate(asteroidPrefab);
            asteroid.transform.localScale = new Vector3(Random.Range(0.2f, 0.35f),
Random.Range(0.2f, 0.35f), Random.Range(0.2f, 0.35f));
        }
    }
```

```
using System.Collections;
using System.Collections.Generic;
using UnityEngine;
public class Asteroid : MonoBehaviour
   public GameObject asteroidObject;
   private Vector3 spawnPoint;
   // Start - called before the first frame update
   void Start()
    {
        if(Random.Range(0, 2) == 0) {
            //Spawn on top or bottom
            if(Random.Range(0, 2) == 0) {
                spawnPoint = new Vector3(Random.Range(-30f, 30f), 0, 30);
            } else {
                spawnPoint = new Vector3(Random,Range(-30f, 30f), 0, -30);
        } else {
            if(Random.Range(0, 2) == 0) {
                spawnPoint = new Vector3(-30, 0, Random.Range(-30f, 30f));
            } else {
                spawnPoint = new Vector3(30, 0, Random.Range(-30f, 30f));
            }
        }
        //Set the asteroid's position
        asteroidObject.transform.position = spawnPoint;
        //Move the asteroid in a random direction
        asteroidObject.GetComponent<Rigidbody>().AddForce(new Vector3(Random.Range(-700f,
700f), 0, Random.Range(-700f, 700f)));
        //Rotate the asteroid in a random direction
        asteroidObject.GetComponent<Rigidbody>().AddTorque(new Vector3(Random.Range(-500f,
500f), Random.Range(-500f, 500f), Random.Range(-500f, 500f)));
        //Wrap asteroids to other side of screen, check every 0.2 seconds. 5 times a
```

InvokeRepeating("CheckIfOffScreen", 0.2f, 0.2f);

```
void CheckIfOffScreen()
    {
        Vector3 currentWorldPos = asteroidObject.transform.position;
        Vector3 viewPosition = Camera.main.WorldToViewportPoint(currentWorldPos);
        if (viewPosition.x > 1f)
        {
            asteroidObject.transform.position = new Vector3(-currentWorldPos.x + 1, ∅,
currentWorldPos.z);
        }
        if (viewPosition.y < 0f)</pre>
            asteroidObject.transform.position = new Vector3(currentWorldPos.x, ∅, -
currentWorldPos.z - 1);
        }
        if (viewPosition.x < 0f)</pre>
            asteroidObject.transform.position = new Vector3(-currentWorldPos.x - 1, 0,
currentWorldPos.z);
        }
        if (viewPosition.y > 1f)
            asteroidObject.transform.position = new Vector3(currentWorldPos.x, 0, -
currentWorldPos.z + 1);
    }
    void Update()
```