Code Examples

Key Points

- A **for loop** is used for iterating through arrays, lists, or doing things multiple times.
- A for each loop specifically iterates through a collection of objects or values.
- While loops continuously execute until their condition is false. In a regular function, this can freeze Unity.
- In a coroutine, however, while loops are used to create mini update loops.

Code Examples

For Loop

```
    public int[] numbers;
    private void Start()
    {
    for (int i = 0; i < numbers.Length; i++)</li>
    {
    Debug.Log("Element " + i + " is " + numbers[i]);
    }
```

For Each Loop

```
    public GameObject[] objects;
    private void Start()
    {
    foreach (GameObject obj in objects)
    {
    Debug.Log(obj.name);
```

```
9. }
While Loop
   1. bool running = false;
   2.
   3. public IEnumerator Start()
   4. {
   5.
        bool running = true;
   6.
        // This happens once
   7.
   8.
   9.
       while (running)
   10. {
         // This happens every frame while running is true
   11.
   12.
          yield return null;
   13. }
   14.
   15. // This happens once at the end
   16.}
```

8. }