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Cache("key") ' Add a new item to the cache Cache("key") = value

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The lowest level of caching in ASP.NET Core that we are going to discuss is the caching of data using `IMemoryCache` and `IDistributedCache`. These interfaces are the standard, in-built mechanisms for caching data in .NET Core. All other techniques that we discuss later in the article rely on `IMemoryCache` or `IDistributedCache` internally.

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To read and write to the data cache from an ASP.NET page's code-behind class, use the following pattern: ' Read from the

```
cache Dim value as Object = Cache("key") ' Add a new item to the cache
Cache("key") = value
Cache.Insert(key, value)
Cache.Insert(key, value, CacheDependency)
Cache.Insert(key, value, CacheDependency, DateTime, TimeSpan)
```

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```
// Connect to the Azure Redis cache
ConfigurationOptions config = new ConfigurationOptions();
config.EndPoints.Add("<your DNS name>.redis.cache.windows.net");
config.Password = "<Redis cache key from management portal>";
ConnectionMultiplexer redisHostConnection = ConnectionMultiplexer.Connect(config);
IDatabase cache = redisHostConnection.GetDatabase(); ...
private async Task<string> RetrieveItem(string itemKey) { //
Attempt to retrieve the item from the Redis cache
string itemValue = await ...
```

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Caching. In web applications, each web request should be completed in the shortest time possible. One way to achieve this

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