Register

```java
public java.lang.String register()

public java.lang.String register(ExecutionMode mode)

public java.lang.String register(
    ExecutionMode mode,
    gears.operations.OnRegisteredOperation onRegister,
    gears.operations.OnUnregisteredOperation onUnregistered)
```

Registers the pipeline of functions to run when certain events occur. The registered functions will run each time the event occurs.

Execution modes:

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASYNC</td>
<td>Runs asynchronously on all of the shards.</td>
</tr>
<tr>
<td>ASYNC_LOCAL</td>
<td>Runs asynchronously but only on the current shard that generated the event.</td>
</tr>
<tr>
<td>SYNC</td>
<td>Runs synchronously only on the same shard that generated the event.</td>
</tr>
</tbody>
</table>

| Note: If you call register() without specifying an execution mode, it will default to ASYNC. |

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>mode</td>
<td>ExecutionMode</td>
<td>The execution mode to use (ASYNC/ASYNC_LOCAL/SYNC)</td>
</tr>
<tr>
<td>onRegister</td>
<td>OnRegisteredOperation</td>
<td>Register callback that will be called on each shard upon register</td>
</tr>
<tr>
<td>onUnregistered</td>
<td>OnUnregisteredOperation</td>
<td>Unregister callback that will be called on each shard upon unregister</td>
</tr>
</tbody>
</table>

Returns

Returns a registration ID.

Example

```java
GearsBuilder.CreateGearsBuilder(reader).register();
```