

```
function [t, w] = EulerMethod(f, a, b, N, alpha)
```

```
    syms t y
```

```
    h = (b - a)/N;
```

```
    t(1) = a;
```

```
    w(1) = alpha;
```

```
    for i = 1:N
```

```
        w(i+1) = w(i) + h*f(t(i), w(i));
```

```
        t(i+1) = a + i*h;
```

```
    end
```

```
end
```