```
solution = DSolve[y'[t] == (1 - t)(1 - y[t]), y[t], t]
```

$$\left\{\left\{y[t] \to 1 + e^{-t+\frac{t^2}{2}} c_1\right\}\right\}$$

```
f[t_] = y[t] /. solution[[1]]
```

```
F[t_] = Table[f[t] /. c1 → j, {j, -5, 5}]
```

```
Plot[{F[t]}, {t, -2, 5}]
```