**Problema 1**

**Analisis**

|  |  |  |
| --- | --- | --- |
| Entrada | Proceso | Salida |
| i = 1 | i  i\*10  i\*100  i\*1000  i = i+1 | 1  10  100  1000 |

**Pseudocodigo**

i, n, c1, c2, c3, c4, I[1-n]

i = 1, n = 8

Mientras (i < n) hacer

c1 = i

c2 = i \* 10

c3 = i \* 100

c4 = i \* 1000

Escribir (c1 + c2 + c3 + c4)

i = i + 1

FinMientras

**Prueba de escritorio**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **i** | **SALIDA** | | | |
| **1** | **1** | **10** | **100** | **1000** |
| **2** | **2** | **20** | **200** | **2000** |
| **3** | **3** | **30** | **300** | **3000** |
| **4** | **4** | **40** | **400** | **4000** |
| **5** | **5** | **50** | **500** | **5000** |
| **6** | **6** | **60** | **600** | **6000** |
| **7** | **7** | **70** | **700** | **7000** |

**Flujograma**

Inicio

i<n

i = 1, n = 8

F

V

c2 = i\*10

c1 = i

c3 = i\*100

i = i + 1

Fin

c4 = i\*1000

c1, c2, c3, c4