**Question 3: ( 4points) On repetition using for loop**

**Satisfies CLO 6 : Understand the role and execution mode of control structures**

**السؤال :**

**تتبع البرنامج التالى و أكمل الفراغات الأربعة الموجودة بكل صف من صفوف الجدول المرفق**

#include “stdafx.h”

int \_tmain(int argc, \_TCHAR\* argv[])

{

int A;

int I;

for (I = 50; I > 1; I /= 2) {

printf(“\n %d “, i);

}

printf(“\n Good Bye \n”);

scanf\_s( “%d”, &A);

return 0;

}

**الجدول المرفق**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **قيمة المتغير i** | **I = 50** | **I = 25** | **I = ----** | **I = ----** | **I = ---** | **I = ----** |
| **الشرط T/ F** | **T** | **T** | **-------** | **-------** | **--------** | **--------** |
| **ما يظهر على الشاشة** | **50** | **------** | **-------** | **-------** | **--------** | **Goodbye** |

**الجواب :**

**Solution:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **قيمة المتغير i** | **i = 50** | **i = 25** | **i = 12** | **i = 6** | **i = 3** | **i = 1** |
| **الشرط T/ F** | **T** | **T** | **T** | **T** | **T** | **F** |
| **ما يظهر على الشاشة** | **50** | **25** | **12** | **6** | **3** | **Goodbye** |

