

2. Modify Example #2

- Change while-loop into for-loop
- **Submission:** capture the **source code**

Example #2

■ Program to print the Fibonacci Series

```
#include <stdio.h>
void fibonacci (int num);
void main()
{
    int num = 0;

    printf("Enter number of terms: ");
    scanf("%d", &num);
    fibonacci(num);
}

void fibonacci (int num)
{
    int a, b, c, i = 3;
    a = 0;
    b = 1;

    if (num == 1)
    {
        printf("%d", a);
    }

    if (num >= 2)
    {
        printf("%d\t%d", a, b);
    }

    while ( i <= num)
    {
        c = a + b;
        printf("\t%d", c);
        a = b;
        b = c;
        i++;
    }
}
```

OUTPUT:

Enter number of terms 6

0 1 1 2 3 5

3. Modify Example #3

- Add one more element in the array whose value is **YOUR STUDENT ID**
- Print four elements in the array including **YOUR STUDENT ID**
- **Submission:** capture the output to show **YOUR STUDENT ID**

Example #3

■ Accessing array elements by incrementing a Pointer

```
#include <stdio.h>

const int MAX = 3; // Global declaration
int main()
{
    printf("\n\n\t\tStudytonight - Best place to learn\n\n");
    int var[] = {100, 200, 300};
    int i, *ptr;

    /*
       storing address of the first element
       of the array in pointer variable
    */
    ptr = var;

    for(i = 0; i < MAX; i++)
    {
        printf("\n\nAddress of var[%d] = %x ", i, ptr);
        printf("\nValue of var[%d] = %d ", i, *ptr);

        // move to the next location
        ptr++;
    }
    printf("\n\n\t\tCoding is Fun !\n\n");
    return 0;
}
```

```
Address of var[0] = 28feec
Value of var[0] = 100

Address of var[1] = 28fef0
Value of var[1] = 200

Address of var[2] = 28fef4
Value of var[2] = 300

Coding is Fun !
```