**10601952 Omolere Enoch CSCD 416**

**Problem 1**

Display 16 Bit Unsigned Numbers.

**Algorithm**

1. Start.
2. Defining and Initializing the variable I with 0.
3. Print I.
4. Increase I by 1.
5. Repeat steps 3 - 4 till I = 65536.
6. Stop.

**Code**

#include <stdio.h>

int main ()

{

DisplayUnsigned16BitNumber ();

return 0;

}

void DisplayUnsigned16BitNumber ()

{

int i = 0;

while(i<65537)

{

printf(" %d", i );

i = i +1;

}

}

**Problem 2**

Display first 24 Numbers in Fibonacci Series.

**Algorithm**

1. Start.
2. Print 1.
3. Defining and Initializing the variables a with 0 , b with 1, holder with 0 and count = 1.
4. Holder = a + b.
5. Assign b to a.
6. Assign holder to b.
7. Increase count by 1.
8. Print holder.
9. Repeat steps 4 – 8 until Count is 24.
10. Stop.

**Code**

#include <stdio.h>

int main()

{

printFibonnaci();

return 0;

}

void printFibonnaci()

{

printf("The Fibonnaci numbers are: 1");

int a = 0; int b = 1; int holder = 0; int count = 1;

while(count<24)

{

holder = a + b; a = b;

b = holder;

count = count + 1;

printf(", %d", holder , " ,%d ");

};}