

① Fibonacci! ~~X~~ ~~Arifij Tomar~~

② Add one in every digit? ~~X~~

③ ~~Row function \rightarrow Aditya Sharma~~
~~1 2 3~~
~~2 1 3~~
~~= 3 2~~

④ ~~i+1 | i = i+1; Swap~~ ~~precedence matters~~
~~Discussion on Precedence:~~ ~~in different~~

⑤ Super factorial $\sqrt{145} = 114151$

⑥ Discussion online ~~platform~~
~~GEEKSFORGEEKS LockCode HackerEarth~~

⑦ ~~fibonacci today:~~ ~~1 2 3 ... n~~ Series X

⑧ Segmentation fault \rightarrow Bhavith Goel

⑨ Palindrome: $121 \rightarrow \text{MADAM} \rightarrow abg$
~~To be discussed today~~

⑩ Armstrong: $153 \rightarrow 1^3 + 5^3 + 3^3$
~~Kannika~~ \rightarrow To be discussed Today.

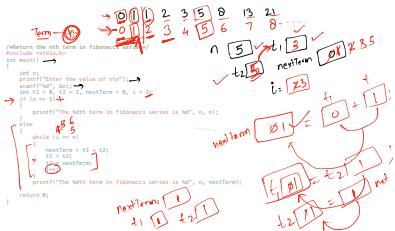
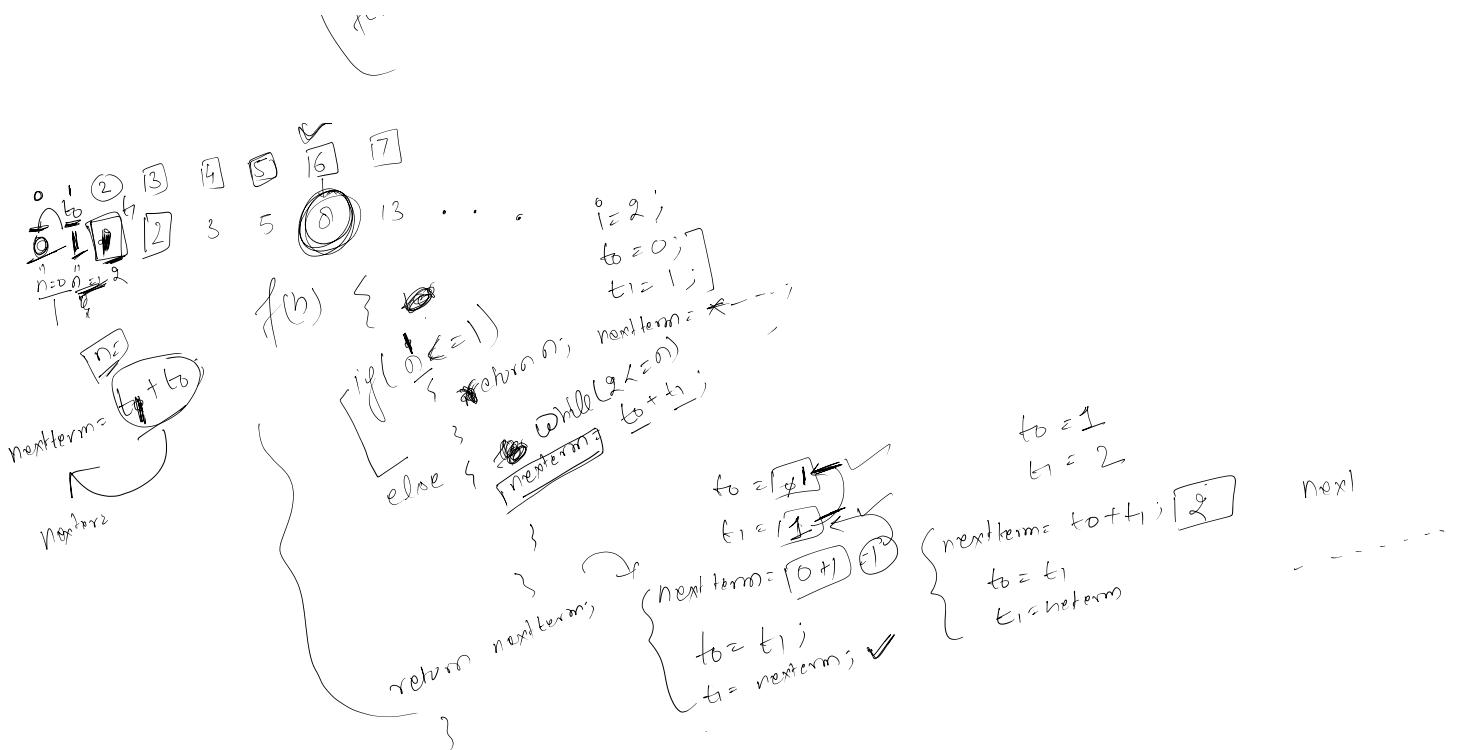
⑪ ?: \rightarrow Ternary operator \rightarrow To be discussed Today.

⑫ Shishir Raotogi?: mail ID:
~~Doubt~~

Fibonacci \rightarrow LeetCode
Coding Ninjas
Geeks for Geeks
HackerEarth
Coding Blocks

Numbers
Text $f(n)$

$$\left\{ \begin{array}{l} f(0) = 0 \\ f(1) = 1 \\ f(2) = 1 \\ f(3) = 2 \\ f(4) = 3 \\ f(5) = 5 \end{array} \right.$$



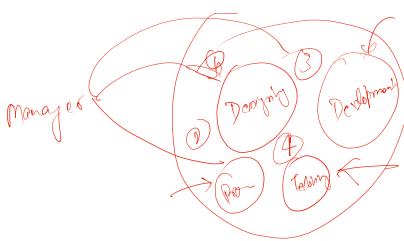
functions :- Hello World:-

```

#include <stdio.h>
int main() {
    printf("Hello World!");
    return 0;
}
  
```

Modular functions

f1) f2)



```
{ #include <stdio.h>
    int hello()
    {
        printf("Hello World\n");
        return 0;
    }
}
```

Hello.c

```
gcl hello.c -o hello
./hello
```

```

function addHello() {
    // Function definition
    // name of the function is hello
    // return type is int
    int hello() {
        print("Hello World!");
        return 0;
    }
    main() {
        // calling a function
        hello();
        return 0;
    }
}

```

HelloWorld

① Main → entry point of the function
② Every file starts from main
③ Go to your code above!
Calling main() code starts
Execution

- Q. Write a function To add Two
- given Values;

```
/* Write a function add() which adds two integers and return the sum.
 * // Function to add two numbers
 * // Parameters: int a, int b
 * // Returns: int sum
 * Local Variable to add function
 *          add(a, b)
 *          sum = a + b
 *          sum = 5 + 10
 *          sum = 15
 */
int add(int a, int b) {
    int sum;
    sum = a + b;
    return sum;
}

int main() {
    int num1, num2;
    cout << "Enter first two numbers";
    cin >> num1 >> num2;
    print("Sum of ", num1, " and ", num2, " is ", sum);
    return 0;
}
```

- ① at the Time of function Declaration/Definition we have no Data types for the Variable if any.
 - ② AT The Time of calling function we pass the data type.

③ Reversibility

$$\begin{matrix} x & y \\ 1 & 4 \\ 2 & 3 \end{matrix} \rightarrow \boxed{x \neq 2 \neq 2} \quad \text{function}$$

```

int main()
{
    int a, b;
    printf("Enter two Value : ");
    scanf("%d %d", &a, &b);
    cout << "Sum = " << a + b;
}

```

int pow (int a, int n) {
 if (n == 0) return 1;
 int result = pow(a, n - 1);
 result *= a;
 return result;
 }