Implement fibonacci series
using functions

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Algorithm

① Start
② Input n
③ Display fibonacci series
for (c=1; c<=n; c+t)
   Display fibonacci(i)
   i++

④ Stop

Int Fibonacci (int n)

Step 1 : entry
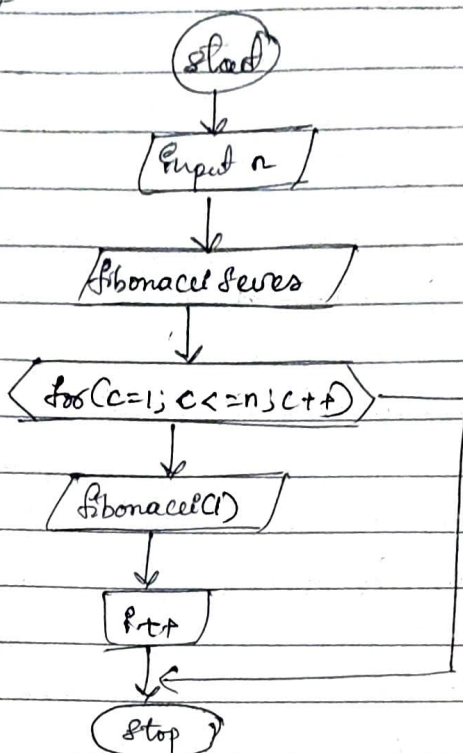Step 2 :   if (n==0)
      return 0
      else if (n==1)
      return 1
      else
      return (fibonacci (n-1) + fibonacci (n-2))

Step 3: End

Flowchart

```
          (Start)
             ↓
        [Input n]
             ↓
     [Fibonacci series]
             ↓
   <for(c=1; c<=n; c++)>──────┐
             ↓                 │
     [Fibonacci(c)]            │
             ↓                 │
         [c++]                 │
             ↓ ←───────────────┘
         (Stop)
```

Int Fibonacci (Int n)

```
          (Entry)
             ↓
     F    ◇ if       T
   ┌──── (n==0) ────┐
   ↓                 ↓
 ◇ if            [Return 0]
(n==1)
 F ┌──┐ T
   ↓   ↓
   │ [Return 1]
   ↓
[return (fibonacci(n-1)+
  fibonacci(n-2))]
   └────────┬──────────┘
            ↓
          (End)
```