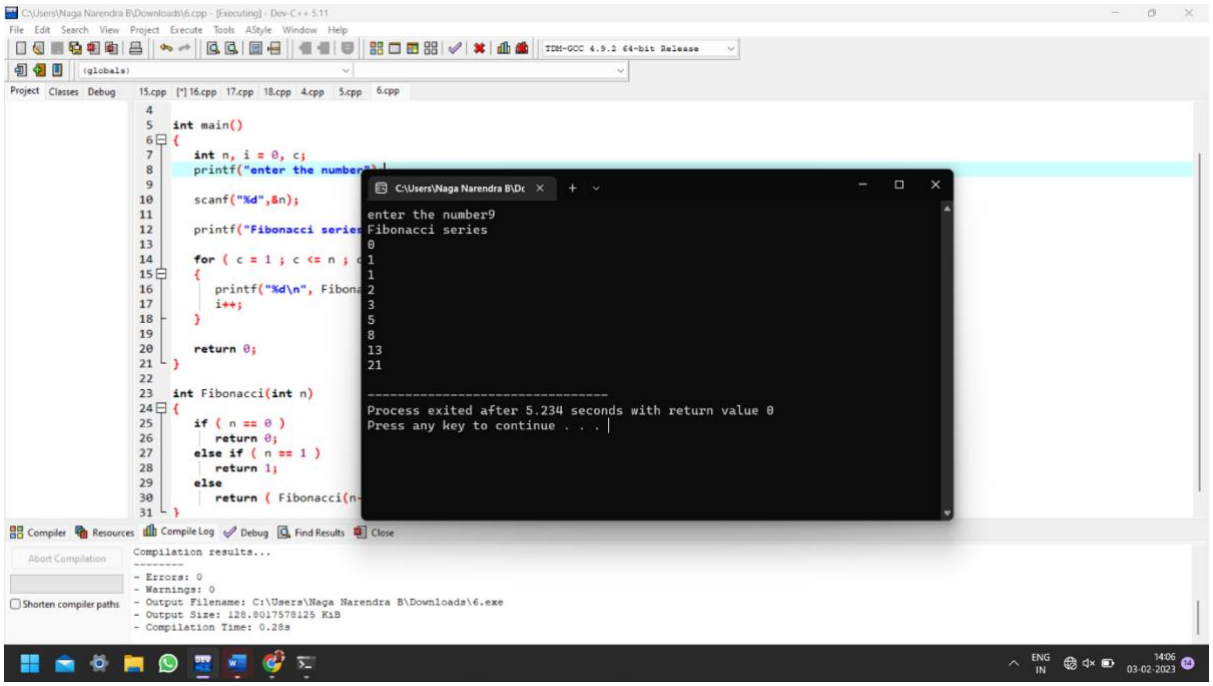
5.fibonacci of a number without using recursion :-

```
#include<stdio.h>

int Fibonacci(int);

int main()
{
  int n, i = 0, c;

  scanf("%d",&n);

  printf("Fibonacci series\n");

  for ( c = 1 ; c <= n ; c++ )
  {
    printf("%d\n", Fibonacci(i));
    i++;
  }

  return 0;
}

int Fibonacci(int n)
{
  if ( n == 0 )
    return 0;
  else if ( n == 1 )
    return 1;
  else
    return ( Fibonacci(n-1) + Fibonacci(n-2) );
}
```


C:\Users\Naga Narendra B\Downloads\6.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
15.cpp [*] 16.cpp 17.cpp 18.cpp 4.cpp 5.cpp 6.cpp
int main()
{
int n, i = 0, c;
printf("enter the number");
scanf("%d",&n);
printf("Fibonacci series
for (c = 1 ; c <= n ;
{
printf("%d\n", Fibona
i++;
}
return 0;
}
int Fibonacci(int n)
{
if (n == 0)
return 0;
else if (n == 1)
return 1;
else
return (Fibonacci(n-
}
C:\Users\Naga Narendra B\Dc
enter the number9
Fibonacci series
0
1
1
2
3
5
8
13
21
Process exited after 5.234 seconds with return value 0
Press any key to continue . . .
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Naga Narendra B\Downloads\6.exe
- Output Size: 128.8017578125 KiB
- Compilation Time: 0.28s
ENG
IN
14:06
03-02-2023