Bài 3.11:

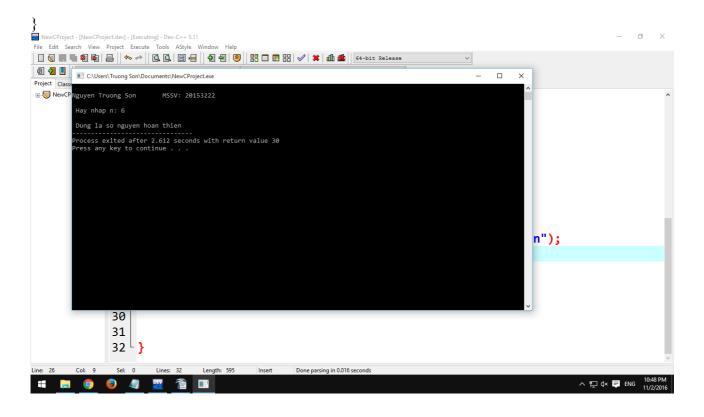
```
#include <stdio.h>
#include <math.h>
#include <conio.h>
void main()
  float x, epsi, S=0, a=0;
  printf("\nNguyen Truong Son
                                     MSSV: 20153222\n");
  printf("\n x = ");
  scanf("%f", &x);
  printf("\n epsi = ");
  scanf("%f", &epsi);
  a=x;
  S = x;
  int i = 2;
  while(fabs(a) \geq epsi) {
     a *= -x * x / (i * (i + 1));
     i += 2;
     S += a;
  printf("\ln \sin(\%f) = \%f", x, S);
  printf("\n Neu theo thu vien Math.h thi : sin(\%f) = \%f", x, sin(x));
  getch();
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                          MSSV: 20153222
            Iguyen Truong Son
                                                                                                            À
            epsi = 0.000001
            sin(5.600000) = -0.631265
Neu theo thu vien Math.h thi : sin(5.600000) = -0.631267
                                                                                              ヘ 🖫 Φ 📮 ENG 10:3
```

Bài 3.12: #include <stdio.h> #include <conio.h>

```
void main() {
   printf("\nNguyen Truong Son
                                      MSSV: 20153222\n");
  printf("\n Nhap n: ");
  scanf("%d", &n);
  if(n == 1 || n == 2)
                printf("\n F\%d = 1", n);
  else
     int a = 1, b = 1, i = 3, m;
     while(i \le n)
        m = b;
        b += a;
        a = m;
        i++;
     printf("\n F\%d = \%d", n, b);
NewCProject - [NewCProject.dev] - [Executing] - Dev-C++ 5.1
   C:\Users\Truong Son\Documents\NewCProject.exe
                                                                              lguyen Truong Son
              20
                             printf("\n F%d = %d", n, b);
              21
              22
              23 <sup>L</sup> }
                                                                                                 ヘ に (x 厚 ENG 10:42
Bài 3.14:
#include <stdio.h>
#include <conio.h>
void main()
  printf("\nNguyen Truong Son MSSV: 20153222\n");
  int n;
```

printf("\n Hay nhap n: ");

```
scanf("\%d", \&n); \\ int S = 0, i = 1, t = 1; \\ do \\ \begin{cases} if(n \% i == 0) \ S += i; \\ if(S > n) \end{cases} \\ \begin{cases} t = 0; \\ break; \\ \\ i++; \\ \} \ while(i < n); \\ if(t) \\ printf("\n Dung la so nguyen hoan thien"); \\ else \\ printf("\n Khong phai la so nguyen hoan thien"); \end{cases}
```



```
Bài 3.15
#include <stdio.h>
#include <conio.h>
void main()
{
    printf("\nNguyen Truong Son MSSV: 20153222\n");
    float f = 1, epsilon;
    printf("\n epsilon: ");
```

```
scanf("%f", &epsilon);
      int i = 1;
      float a = 1;
      while(a \ge epsilon) {
             a *= 1.0 / i;
             f += a;
             i++;
      printf("\n e = \%f", f);
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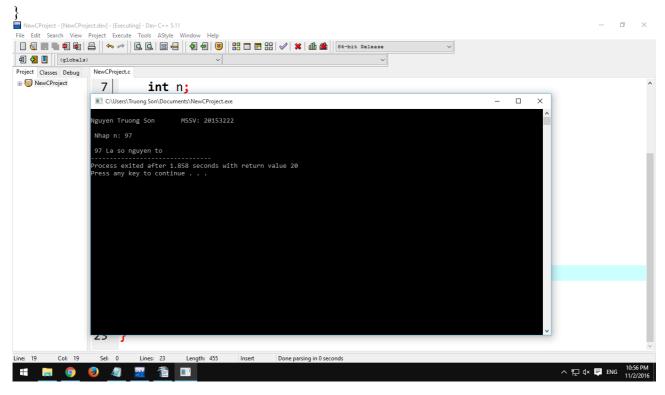
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                                      ocess exited after 3.536 seconds with return value 14
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Bài 3.17:
#include <stdio.h>
#include <conio.h>
#include <math.h>
void main()
      printf("\nNguyen Truong Son
                                                                                             MSSV: 20153222\n");
      int n;
      printf("\n Nhap n: ");
      scanf("%d", &n);
      int i = 2, t = 1;
      do
             if(n \% i == 0)
```

t = 0; break;

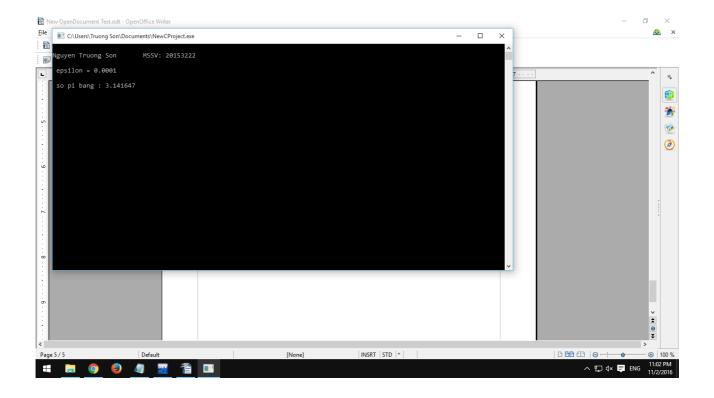
} while(i < sqrt(n));

i++;

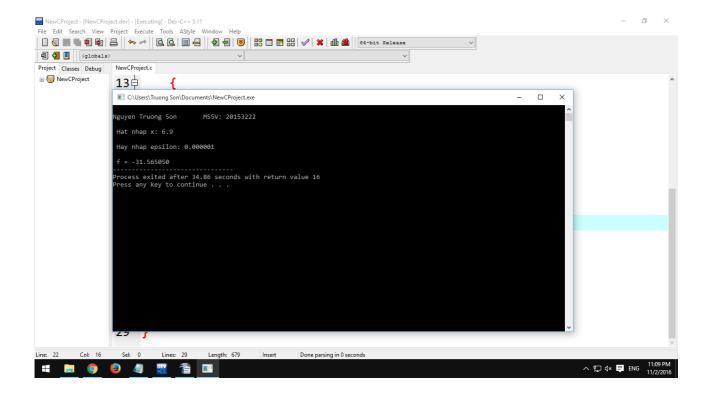
if(t) printf("\n %d La so nguyen to",n); else printf("\n %d Khong la so nguyen to",n);



```
Bài 3.18:
#include <stdio.h>
#include <conio.h>
void main()
  printf("\nNguyen Truong Son
                                   MSSV: 20153222\n");
  float epsilon = 0, a = 1, d = 1, pi = 4, i = 1;
  printf("\n epsilon = ");
  scanf("%f", &epsilon);
  while(a > epsilon) {
     d = -d;
    i += 2;
     a = 4.0 / i;
     pi += d * a;
  printf("\n so pi bang : %f", pi);
  getch();
```



```
Bài 3.19
#include <stdio.h>
#include <conio.h>
void main() {
  printf("\nNguyen Truong Son
                                   MSSV: 20153222\n");
  float x, epsilon;
  printf("\n Hat nhap x: ");
  scanf("%f", &x);
  printf("\n Hay nhap epsilon: ");
  scanf("%f", &epsilon);
  if(3 * x \le epsilon)
               printf("\n f = \%f", 1 - 3*x);
  else
     float a = x;
     int i = 5, j = 4, d = 1;
    a = x*x*x/(j*(j-1)*(j-2));
     float f = 1 - 3*x;
     while(i * a > epsilon)
       f += d*i*a;
       i += 2;
       i += 3;
       d = -d;
       a *= (x*x*x) / (j*(j-1)*(j-2));
     printf("\n f = \%f", f);
```



```
Bài 3.20:
#include <stdio.h>
#include <conio.h>
#include <math.h>
void main()
  printf("\nNguyen Truong Son
                                      MSSV: 20153222\n");
  int a, b, c;
  printf("\n Cac so a,b,c thoa man la:\n");
  for(a = 1; a \le 100; a++)
     for(b = a; b \le 100; b++)
       c = (int) \operatorname{sqrt}(a*a + b*b);
       if(c > 100)
                              break;
       if(c*c == a*a + b*b)
                              printf("\n (%d, %d, %d)", a, b, c);
}
```

