```
Program 1
Ws3 p1.cpp Ws3 p1.c
   #include<stdio.h>
                                          C:\Users\phamm\Documents\Ws3 p1.exe
     #include<math.h>
     int isPrime(int n)
                                              5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97
         int m = sqrt(n);
int i;
                                            rocess exited after 2.149 seconds with return value 0
                                          Press any key to continue . . .
         if (n<2) return 0;
         for(i=2;i<=m;i++)
         if (n%i==0) return 0;
         return 1;
     int main()
         int n,i;
              printf("Nhap n:");
scanf("%d", &n);
         while (n<2);
         for(i=2;i<=n;i++){
            if(isPrime(i)==1){
   printf("%d ", i);
         getchar();
return 0;
Compile Log 🔗 Debug 🖳 Find Results
```

Program 2

```
Vs3 p5.c Ws3 p6.c Ws3 p7.c Ws3 p8.c [*] Ws3 p9.c [*] Ws3 p10.c [*] Ws3 p1.cpp Ws3 p2.c W
                                                                   Nhap ngay: 12
  #include<stdio.h>
                                                                   Whap thang: 12
 2 □ int validDate(int d, int m, int y){
                                                                   Nhap nam: 2022
                                                                   Ngay 12/12/2022 la valid date
        int maxd = 31;
        if (d<1||d>31||m<1||m>12) return 0;
        if (m==4 | m==6 | m==9 | m==11) maxd=30;
                                                                    rocess exited after 12.62 seconds with return value 30
        else if (m==2){}
                                                                  Press any key to continue . . .
            if (y%400==0 | y%4==0 && y%100!=0) maxd=29;
             else maxd=28;
                                                                   C:\Users\phamm\Documents\Ws3 p2.exe
        return d<maxd;
                                                                   Nhap ngay: 12
                                                                   Whap thang: 30
 2  int main(){
                                                                    hap nam: 2022
        int d,m,y;
                                                                    gay 12/30/2022 ko la valid date
        printf("Nhap ngay: ");
        scanf("%d", &d);
                                                                    rocess exited after 5.251 seconds with return value 32
        printf("Nhap thang: ");
                                                                   Press any key to continue . . .
        scanf("%d", &m);
        printf("Nhap nam: ");
        scanf("%d", &y);
        if (validDate(d,m,y)==1){
            printf("Ngay %d/%d/%d la valid date\n", d,m,y);
          else {
             printf("Ngay %d/%d/%d ko la valid date", d,m,y);
Compile Log 🔗 Debug 🖳 Find Results
```

Program 3

```
1 #include<stdio.h>
 2 = int getRelPos(double x, double y, double r){
                                                                 C:\Users\phamm\Documents\Ws3 p3.exe
         double d2=x*x + y*y;
         double r2=r*r;
         if (d2<r2) return 1;
         else if (d2==r2) return 0;
                                                                  he point is in the circle
         return -1;
 9 ☐ int main()
                                                                   rocess exited after 2.168 seconds with return value 0
         double x,y,r,result;
                                                                  Press any key to continue . . .
         printf("Nhap x: ");
         scanf("%lf", &x);
                                                                       Users\phamm\Documents\Ws3 p3.exe
         printf("Nhap y: ");
         scanf("%1f", &y);
16
17
18
             printf("Nhap r: ");
             scanf("%lf", &r);
                                                                  The point is on the circle
         while(r<0);
                                                                   rocess exited after 3.345 seconds with return value 0
         result = getRelPos(x,y,r);
                                                                Press any key to continue . . .
         if (result == 1){
          printf("The point is in the circle");
}else if (result == 0){
                                                                C:\Users\phamm\Documents\Ws3 p3.exe
             printf("The point is on the circle");
             printf("The point is out the circle");
                                                                   ne point is out the circle
                                                                  Process exited after 16.33 seconds with return value 0
                                                                Press any key to continue . . .
all Committee A Daham M Final Decole
```

Program 4

```
s3 p5.c Ws3 p6.c Ws3 p7.c Ws3 p8.c [*] Ws3 p9.c [*] Ws3 p10.c [*] Ws3 p1.cpp Ws3 p2.c Ws3 p3.cpp Ws3 p4.c
   #include<stdio.h>
                                                    C:\Users\phamm\Documents\Ws3 p4.exe
 double factorial(int n){
        double p=1;
                                                    Nhap n: 5
        int i;
                                                     actorial: 120
       for (i=2;i<=n;i++) p*=i;
       return p;
                                                     Process exited after 1.772 seconds with return value 0
                                                    Press any key to continue . . .
 int main(){
        int n;
           printf("Nhap n: ");
           scanf("%d", &n);
        while (n < = 0);
        printf("Factorial: %.lf ", factorial(n));
        return 0;
```

Program 5

```
Ws3 p5.c Ws3 p6.c Ws3 p7.c Ws3 p8.c [*] Ws3 p9.c [*] Ws3 p10.c [*] Ws3 p1.cpp Ws3 p2.c Ws3 p3.cpp Ws3 p4.c
 1 #include<stdio.h>
                                                    C:\Users\phamm\Documents\Ws3 p5.exe
 2 ☐ double fibo (int n){
          int t1=1,t2=1,f=1,i;
                                                    Nhap n: 13
          for (i=3;i<=n;i++){
                                                    Gia tri n la: 233
                                                     -----
             t1=t2;
                                                    Process exited after 1.02 seconds with return value 0
             t2=f;
                                                    Press any key to continue . . .
          return f;
11 ☐ int main(){
12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 20 |
          int n;
             printf("Nhap n: ");
             scanf("%d", &n);
          while (n<1);
          printf("Gia tri n la: %.lf", fibo(n));
          return 0;
Compile Log 🕢 Debug 🗓 Find Results 🕮 Close
 Compilation results...
 - Errors: 0
```

Program 6

```
#include<stdio.h>
2 ☐ int isFibonacci (int n){
                                                   C:\Users\phamm\Documents\Ws3 p6.exe
        int t1=2, t2=1, f=1;
                                                   Nhap n: 10
                                                   It is not a Fibonacci element
        if(n==1) return 1;
         while (f<n)
                                                   Process exited after 1.262 seconds with return val
          { f=t1 + t2;
                                                   Press any key to continue . . .
           t1=t2;
           t2=f;
                                                   C:\Users\phamm\Documents\Ws3 p6.exe
        return n==f;
                                                   Nhap n: 1
                                                   It is a Fibonacci element
l2 ☐ int main(){
                                                   Process exited after 0.4532 seconds with return va
         int n;
                                                   Press any key to continue . . .
            printf("Nhap n: ");
             scanf("%d", &n);
            while (n<1);
        if (isFibonacci(n) == 1){
            printf("It is a Fibonacci element");
          else {
          printf("It is not a Fibonacci element");
23
        return 0;
```

Program 7

```
Ws3 p5.c Ws3 p6.c Ws3 p7.c Ws3 p8.c [*] Ws3 p9.c [*] Ws3 p10.c [*] Ws3 p1.cpp Ws3 p2.c Ws3 p3.cpp Ws3 p4.c
 1 #include<stdio.h>
                                       C:\Users\phamm\Documents\Ws3 p7.exe
 2 int sumDigits (int n)
 3 ☐ { int sum=0;
                                       Nhap n= 23
                                       Nhap n= 19
         int remainder = n%10;
                                       Nhap n= 25
         n = n/10;
         sum += remainder;
       while(n>0);
                                       Nhap n= -9
       return sum;
                                         ____
                                       Process exited after 11.11 seconds with return value 0
13 ☐ int main(){
                                       Press any key to continue . . .
         int n, S;
             printf("\nNhap n= ");
             scanf("%d", &n);
             if (n>=0)
                 S = sumDigits(n);
                 printf("S= %d", S);
           while (n>=0);
25
26
         return 0;
```

Program 8

```
wss pole wss pole wss pric wss pole ["] wss psic ["] wss pilic ["] wss pilicpp wss plic wss psicpp wss paic
 1 #include<stdio.h>
                                                           C:\Users\phamm\Documents\Ws3 p8.exe
    double makeDouble(int ipart, int fraction)
                                                           Nhap ipart: 20
                                                            Nhap fraction: 30
         double d_f = fraction;
                                                            Value : 20.300000
         while (d_f)=1 d_f = d_f/10;
         if (ipart<0) return ipart - d_f;</pre>
                                                           Process exited after 4.424 seconds with return value 0
         return ipart + d_f;
                                                           Press any key to continue . . .
    int main()
         int ipart, fraction;
         double value;
         printf("Nhap ipart: ");
         scanf("%d", &ipart);
             printf("Nhap fraction: ");
             scanf("%d", &fraction);
         }while (fraction<0);</pre>
         value = makeDouble(ipart, fraction);
         printf("Value : %lf", value);
```

Program 9

```
C:\Users\phamm\Documents\Ws3 p9.exe
  1 #include<stdio.h>
      int gcd(int a,int b)
                                     Nhap a: 20
       { while (a!=b)
                                     Nhap b: 30
           if (a>b)
                                      d= 10m= 60
           else ·
                                      Process exited after 4.559 seconds with return value 0
                                     Press any key to continue . . .
          return a;
       int lcm(int a, int b)
 12 <del>|</del>
           return a*b/gcd(a,b);
      int main()
          int a,b,d,m;
              printf("Nhap a: ");
              scanf("%d", &a);
              printf("Nhap b: ");
21
22
23
24
25
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27
28
29
              scanf("%d", &b);
          while (a<=0 || b<=0);
          d = gcd(a,b);
          m = lcm(a,b);
          printf("d= %d", d);
          printf("m= %d", m);
          return 0;
```

Program 10

```
wss ps.c wss po.c wss pr.c wss po.c wss ps.c
                                          C:\Users\phamm\Documents\Ws3 p10.exe
 #include<stdio.h>
2 void printMinMaxDigits(int n){
                                         Nhap n: 15268
         int digit;
                                         Max digit: 8
         int min,max;
                                         Min digit: 1
         digit=n% 10;
                                           ------
         min = max = digit;
                                         Process exited after 4.15 seconds with return value 15268
         while (n>0)
                                         Press any key to continue . . .
             digit = n%10;
            if (min > digit) min=digit;
             if (max < digit) max=digit;</pre>
15
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17
         printf("Max digit: %d\n", max);
         printf("Min digit: %d\n", min);
18 ☐ int main(){
19
20 🚍
         int n;
         do ·
            printf("Nhap n: ");
             scanf("%d", &n);
             printMinMaxDigits(n);
24 25
            while (n<0);
```