

Bài 3.1

```
main.c
1  #include <stdio.h>
2  #define PI 3.1415
3
4  int main()
5  {
6      double t, l, h, tong;
7
8      scanf("%lf", &t);
9      scanf("%lf", &l);
10     scanf("%lf", &h);
11     tong = t + l + h;
12     printf("%lf\n", tong);
13     printf("%lf", tong/3);
14     return 0;
15 }
```

1
2
3
6.000000
2.000000

Bài 3.2

```
main.c
2  #include <math.h>
3  int main(){
4      const double PI = 3.14159;
5      double r, M, S;
6      scanf("%lf", &r);
7      if( r <= 0){
8          printf("ERROR");
9      }
10     else{
11         M = 2 * PI * r;
12         S = PI * pow(r, 2);
13         printf("%lf\n", M);
14         printf("%lf", S);
15     }
16     return 0;
17 }
```

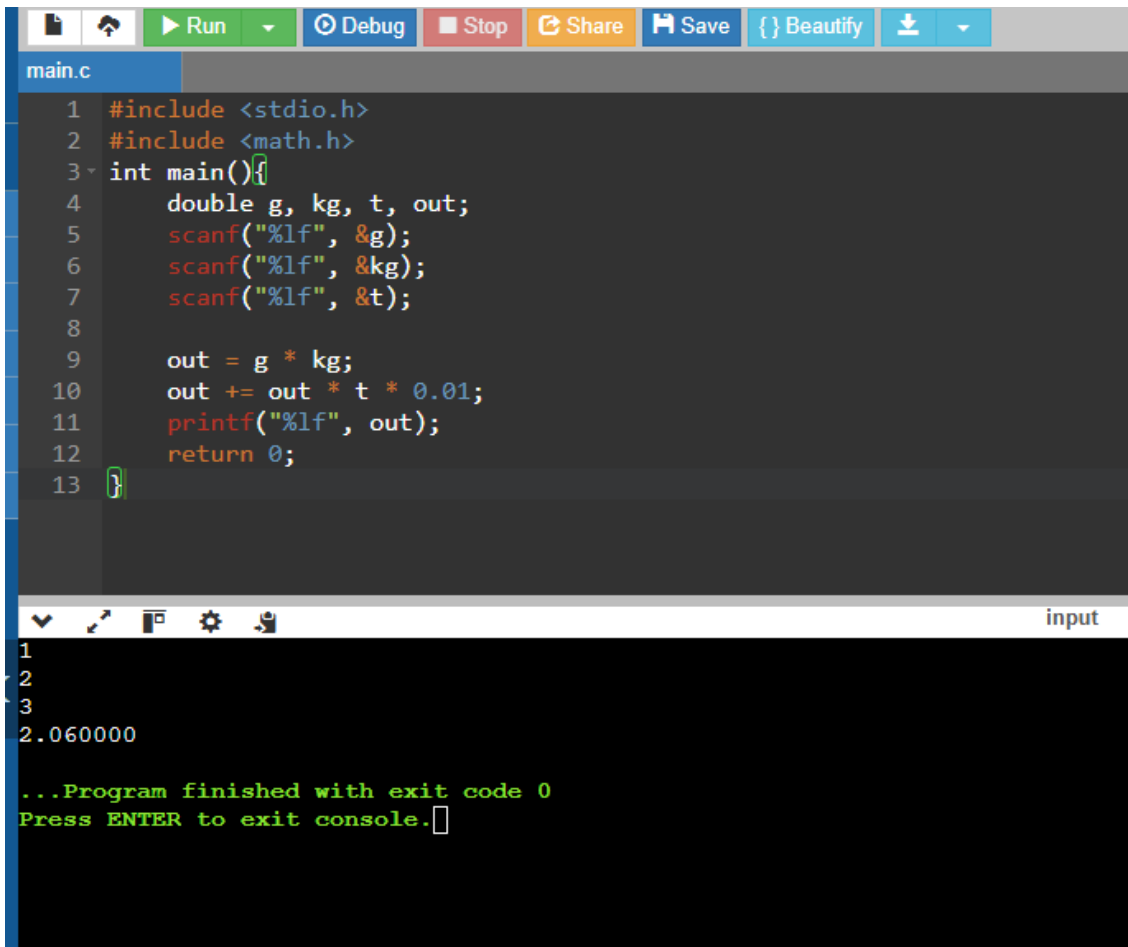
1
6.283180
3.141590

Bài 3.3

```
main.c
1  #include <stdio.h>
2  #include <math.h>
3  int main(){
4      double x, y;
5      scanf("%lf", &x);
6      scanf("%lf", &y);
7      printf("%lf\n", pow(x, 2)+pow(y,2));
8      printf("%lf\n", pow(x+y, 2));
9      printf("%lf\n", pow(x-y, 2));
10 }
```

input
1
2
5.000000
9.000000
1.000000

Bài 3.4



The image shows a code editor window with a toolbar at the top containing buttons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The editor displays a C program named `main.c` with the following code:

```
1 #include <stdio.h>
2 #include <math.h>
3 int main(){
4     double g, kg, t, out;
5     scanf("%lf", &g);
6     scanf("%lf", &kg);
7     scanf("%lf", &t);
8
9     out = g * kg;
10    out += out * t * 0.01;
11    printf("%lf", out);
12    return 0;
13 }
```

Below the code editor is a terminal window titled "input". It shows the program's execution output:

```
1
2
3
2.060000
...Program finished with exit code 0
Press ENTER to exit console.
```

Bài 3.5

```
main.c
4  GDB online is an online compiler and debugger tool for C, C++, Python, PHP, R
5  C#, OCaml, VB, Perl, Swift, Prolog, Javascript, Pascal, COBOL, HTML, CSS, JS
6  Code, Compile, Run and Debug online from anywhere in world.
7
8  *****
9  #include <stdio.h>
10 #include <math.h>
11 int main(){
12     double x,y,z;
13     scanf("%lf", &x);
14     scanf("%lf", &y);
15     scanf("%lf", &z);
16     double f1 = (x+y+z)/ (pow(x,2) + pow(y,2) + 1 );
17     double f2 = fabs(x - z*cos(y));
18     printf("%lf", f1 + f2);
19 }
```

input

```
1
2
3
3.248441

...Program finished with exit code 0
Press ENTER to exit console.
```

Bài 3.6

```
main.c
2  #include <math.h>
3  int main(){
4      double x,y;
5      scanf("%lf", &x);
6      scanf("%lf", &y);
7
8      double f1 = pow(y,6);
9      double f2 = x * pow(y, 5);
10     double f3 = pow(x,2) * pow(y, 4);
11     double f4 = pow(x,3) * pow(y,3);
12     double f5 = pow(x,4) * pow(y,2);
13     double f6 = pow(x,5) * y;
14     double f7 = pow(x,6);
15
16     printf("%lf", f1 + f2 + f3 + f4 + f5 + f6 + f7);
17 }
```

input

```
1
2
127.000000

...Program finished with exit code 0
Press ENTER to exit console.
```

Bài 3.7

main.c

```
1  /*****
2
3  Welcome to GDB Online.
4  GDB online is an online compiler and debugger tool for C, C++, Python, PHP, Ruby,
5  C#, OCaml, VB, Perl, Swift, Prolog, Javascript, Pascal, COBOL, HTML, CSS, JS
6  Code, Compile, Run and Debug online from anywhere in world.
7
8  *****/
9  #include <stdio.h>
10 #include <math.h>
11 int main(){
12     double x;
13     scanf("%lf", &x);
14     double const PI = 3.14159;
15     double a = sqrt( pow(2,x) + PI );
16     double b = log( exp(x + 1.23) + 1 );
17
18     double a1 = cos(3*a) + pow(2*pow(x,3) + x + 1, 1.0/5);
19     double a2 = log( pow(3, pow(x, 2)) + 2.14 * b ) / log(7);
20
21     printf("%lf", a1 / a2);
22
23     return 0;
24 }
```

input

10
0.075373

...Program finished with exit code 0
Press ENTER to exit console.

Bài 3.8

main.c

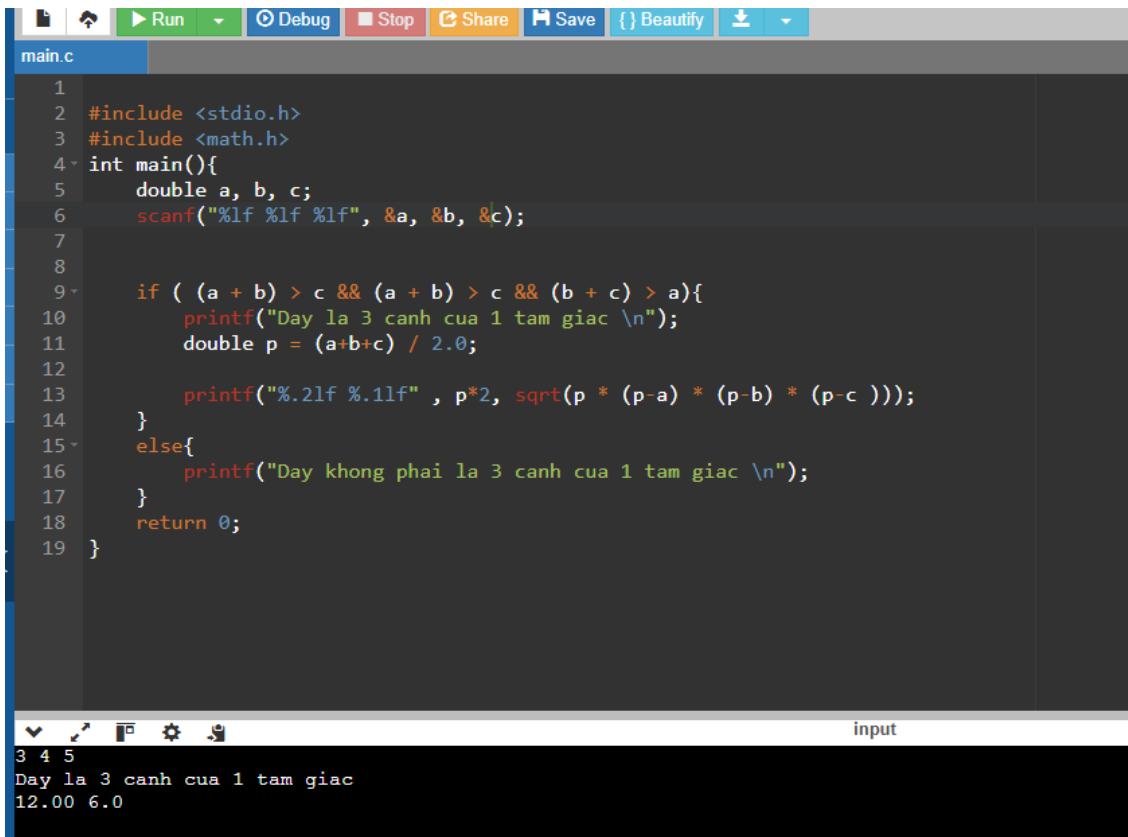
```
1  /*****
2
3  Welcome to GDB Online.
4  GDB online is an online compiler and debugger tool for C, C++, Python, PHP, Ruby,
5  C#, OCaml, VB, Perl, Swift, Prolog, Javascript, Pascal, COBOL, HTML, CSS, JS
6  Code, Compile, Run and Debug online from anywhere in world.
7
8  *****/
9  #include <stdio.h>
10 #include <math.h>
11 int main(){
12     double x;
13     scanf("%lf", &x);
14     double out = x + sqrt(pow(x,2) + 2 * x -1 );
15     out = pow(out, 1.0/3);
16     out = log(out) / log(3);
17
18     printf("%lf", out);
19     return 0;
20 }
```

input

10
0.922426

...Program finished with exit code 0
Press ENTER to exit console.

Bài 3.9



```
main.c
1
2 #include <stdio.h>
3 #include <math.h>
4 int main(){
5     double a, b, c;
6     scanf("%lf %lf %lf", &a, &b, &c);
7
8
9     if ( (a + b) > c && (a + c) > b && (b + c) > a){
10         printf("Day la 3 canh cua 1 tam giac \n");
11         double p = (a+b+c) / 2.0;
12
13         printf("%.2lf %.1lf" , p*2, sqrt(p * (p-a) * (p-b) * (p-c )));
14     }
15     else{
16         printf("Day khong phai la 3 canh cua 1 tam giac \n");
17     }
18     return 0;
19 }
```

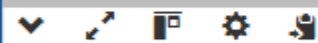
input

```
3 4 5
Day la 3 canh cua 1 tam giac
12.00 6.0
```

Bài 3.10

main.c

```
1
2  #include <stdio.h>
3  #include <math.h>
4  int main(){
5      int k, x, ak, nk, out = 0;
6      scanf("%d %d", &k, &x);
7      for(k; k>0; k--){
8          scanf("%d %d", &ak, &nk);
9          out += ak * pow(x, nk);
10     }
11     printf("%d", out);
12 }
```



```
3 1
6 4
3 2
5 1
14
```

...Program finished with exit code 0
Press ENTER to exit console.