Bài 3.1

main.c

```c
#include <stdio.h>
#define PI 3.1415

int main()
{
    double t, l, h, tong;

    scanf("%lf", &t);
    scanf("%lf", &l);
    scanf("%lf", &h);
    tong = t +l +h;
    printf("%lf\n", tong);
    printf("%lf", tong/3);
    return 0;
}
```

```
1
2
3
6.000000
2.000000
```

Bài 3.2

main.c

```c
#include <math.h>
int main(){
    const double PI = 3.14159;
    double r, M, S;
    scanf("%lf", &r);
    if( r <= 0){
        printf("ERROR");
    }
    else{
        M =  2 * PI * r;
        S = PI * pow(r, 2);
        printf("%lf\n", M);
        printf("%lf", S);
    }
    return 0;
}
```

```
1
6.283180
3.141590
```

Bài 3.3

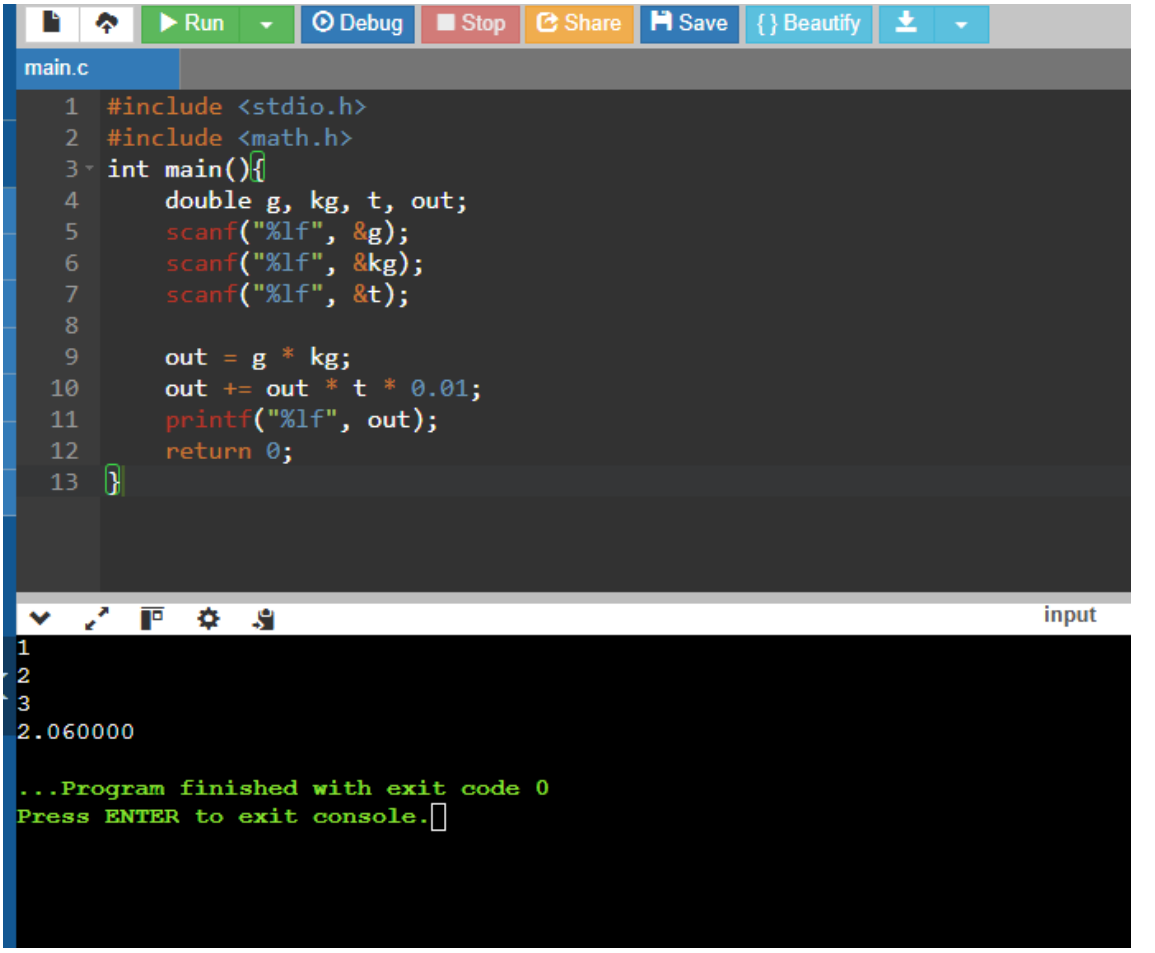
main.c

```c
#include <stdio.h>
#include <math.h>
int main(){
    double x, y;
    scanf("%lf", &x);
    scanf("%lf", &y);
    printf("%lf\n", pow(x, 2)+pow(y,2));
    printf("%lf\n", pow(x+y, 2));
    printf("%lf\n", pow(x-y, 2));
}
```

input

```
1
2
5.000000
9.000000
1.000000
```

Bài 3.4


Run
Debug
Stop
Share
Save
{} Beautify
main.c
#include <stdio.h>
#include <math.h>
int main(){
double g, kg, t, out;
scanf("%lf", &g);
scanf("%lf", &kg);
scanf("%lf", &t);
out = g * kg;
out += out * t * 0.01;
printf("%lf", out);
return 0;
}
input
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

```c
/******************************************************************************

Welcome to GDB Online.
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  C#, OCaml, VB, Perl, Swift, Prolog, Javascript, Pascal, COBOL, HTML, CSS, JS
  Code, Compile, Run and Debug online from anywhere in world.

*******************************************************************************/
#include <stdio.h>
#include <math.h>
int main(){
    double x;
    scanf("%lf", &x);
    double const PI  = 3.14159;
    double a = sqrt( pow(2,x) + PI );
    double b = log( exp(x + 1.23) + 1 );

    double a1 = cos(3*a) + pow(2*pow(x,3) + x + 1, 1.0/5);
    double a2 = log( pow(3, pow(x, 2)) + 2.14 * b ) / log(7);

    printf("%lf", a1 / a2);

    return 0;
}
```

input

```
10
0.075373

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

Bài 3.8

main.c

```c
/******************************************************************************

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  C#, OCaml, VB, Perl, Swift, Prolog, Javascript, Pascal, COBOL, HTML, CSS, JS
  Code, Compile, Run and Debug online from anywhere in world.

*******************************************************************************/
#include <stdio.h>
#include <math.h>
int main(){
    double x;
    scanf("%lf", &x);
    double out = x + sqrt(pow(x,2) + 2 * x -1 );
    out = pow(out, 1.0/3);
    out = log(out) / log(3);

    printf("%lf", out);
    return 0;
}
```

input

```
10
0.922426

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

Bài 3.9

Bài 3.10

main.c

```c

#include <stdio.h>
#include <math.h>
int main(){
    int k, x, ak, nk, out = 0;
    scanf("%d %d", &k, &x);
    for(k; k>0; k--){
        scanf("%d %d", &ak, &nk);
        out += ak * pow(x, nk);
    }
    printf("%d", out);
}
```

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

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