

First Program

```
#include <iostream>
#include <cmath>
using namespace std;

int main()
{
    int Time, Velocity, Distance;

    cout << "Enter Velocity (in Km/h): ";
    cin >> Velocity;
    cout << "Enter Distance (in Km): ";
    cin >> Distance;
    Time = Distance / Velocity;
    cout << "Time Elapsed: " << Time << " Hours" << endl;

    return 0;
}
```

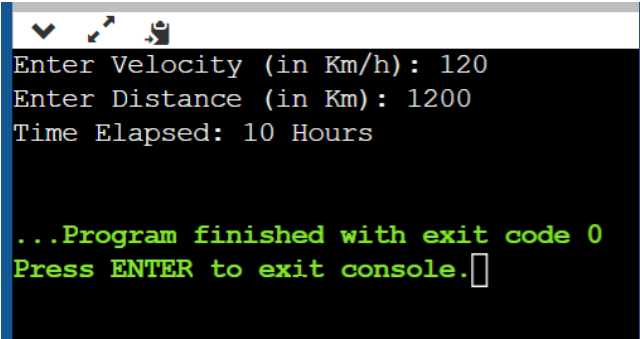
```
#include <iostream>
#include <cmath>
using namespace std;

int main()
{
    int Time, Velocity, Distance;

    cout << "Enter Velocity (in Km/h): ";
    cin >> Velocity;
    cout << "Enter Distance (in Km): ";
    cin >> Distance;
    Time = Distance / Velocity;
    cout << "Time Elapsed: " << Time << " Hours" << endl;

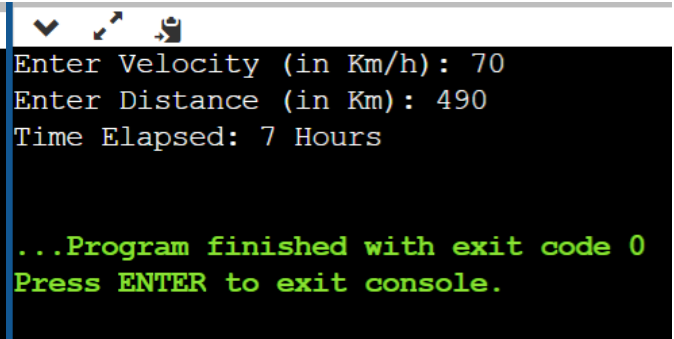
    return 0;
}
```

Input & Output



```
Enter Velocity (in Km/h): 120
Enter Distance (in Km): 1200
Time Elapsed: 10 Hours

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



```
Enter Velocity (in Km/h): 70
Enter Distance (in Km): 490
Time Elapsed: 7 Hours

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

Second Program

```
#include <iostream>
#include <cmath>
using namespace std;

int main()
{
    int hour_1, minute_1, hour_2, minute_2, diff_hour, diff_minute, diff_convert, diff_total;

    cout << "Enter the 1st Hour (In 24h Format): ";
    cin >> hour_1;
    cout << "Enter the 1st Minute: ";
    cin >> minute_1;
    cout << "Enter the 2nd Hour (In 24h Format): ";
    cin >> hour_2;
    cout << "Enter the 2nd Minute: ";
    cin >> minute_2;

    diff_hour = hour_1 - hour_2;
    diff_minute = minute_1 - minute_2;
    diff_convert = diff_hour*60;
    diff_total = diff_convert + diff_minute;

    cout << endl;
    cout << "The difference between the two times is " << diff_total << " minutes"<< endl;

    return 0;
}
```

```
1 #include <iostream>
2 #include <cmath>
3 using namespace std;
4
5 int main()
6 {
7     int hour_1, minute_1, hour_2, minute_2, diff_hour, diff_minute, diff_convert, diff_total;
8
9     cout << "Enter the 1st Hour (In 24h Format): ";
10    cin >> hour_1;
11    cout << "Enter the 1st Minute: ";
12    cin >> minute_1;
13    cout << "Enter the 2nd Hour (In 24h Format): ";
14    cin >> hour_2;
15    cout << "Enter the 2nd Minute: ";
16    cin >> minute_2;
17
18    diff_hour = hour_1 - hour_2;
19    diff_minute = minute_1 - minute_2;
20    diff_convert = diff_hour*60;
21    diff_total = diff_convert + diff_minute;
22
23    cout << endl;
24    cout << "The difference between the two times is " << diff_total << " minutes"<< endl;
25
26    return 0;
27 }
```

Input & Output

<pre>Enter the 1st Hour (In 24h Format): 19 Enter the 1st Minute: 41 Enter the 2nd Hour (In 24h Format): 12 Enter the 2nd Minute: 17 The difference between the two times is 444 minutes ...Program finished with exit code 0 Press ENTER to exit console.</pre>	<pre>Enter the 1st Hour (In 24h Format): 12 Enter the 1st Minute: 23 Enter the 2nd Hour (In 24h Format): 7 Enter the 2nd Minute: 58 The difference between the two times is 265 minutes ...Program finished with exit code 0 Press ENTER to exit console.</pre>
--	---

Third Program

```
#include <iostream>
#include <cmath>
using namespace std;
```

```
int main()
{
```

```
int number1, number2;
```

```
cout << "Enter number: ";
cin >> number1 >> number2;
cout << number2 << " " << number1 << endl;
```

```
return 0;
}
```

```
1  #include <iostream>
2  #include <cmath>
3  using namespace std;
4
5  int main()
6  {
7
8  int number1, number2;
9
10 cout << "Enter number: ";
11 cin >> number1 >> number2;
12 cout << number2 << " " << number1 << endl;
13
14 return 0;
15 }
```

Input & Output

```
Enter number: 15 4
4 15
```

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

```
Enter number: 49 23
23 49
```

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

Fourth Program

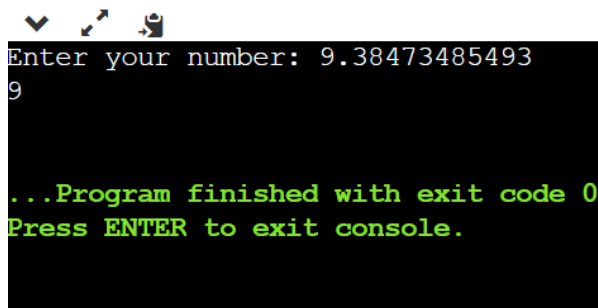
```
#include <iostream>
#include <cmath>
using namespace std;
int main() {

    double number_01, number_after;
    cout << "Enter your number: ";
    cin >> number_01;
    number_after = floor(number_01);
    cout << number_after << endl;

    return 0;
}
```

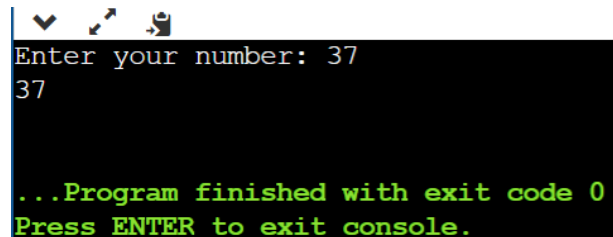
```
1  #include <iostream>
2  #include <cmath>
3  using namespace std;
4  int main() {
5
6
7      double number_01, number_after;
8      cout << "Enter your number: ";
9      cin >> number_01;
10     number_after = floor(number_01);
11     cout << number_after << endl;
12
13     return 0;
14 }
```

Input & Output



```
Enter your number: 9.38473485493
9

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



```
Enter your number: 37
37

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

Fifth Program

```
#include <iostream>
#include <cmath>
using namespace std;
```

```
int main() {
```

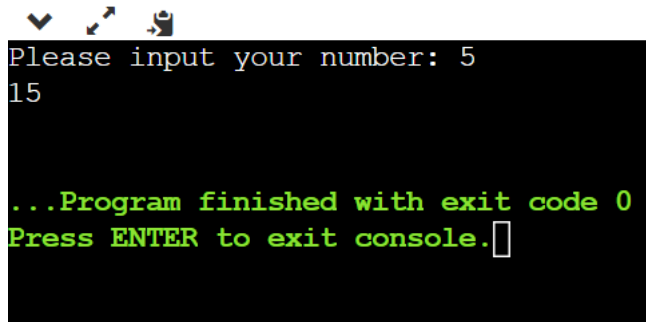
```
    long int num_input_user;
    long int num_calculate;
    cout << "Please input your number: ";
    cin >> num_input_user;
    num_calculate = num_input_user*(num_input_user+1)/2;
    cout << num_calculate << endl;
```

```
    return 0;
```

```
}
```

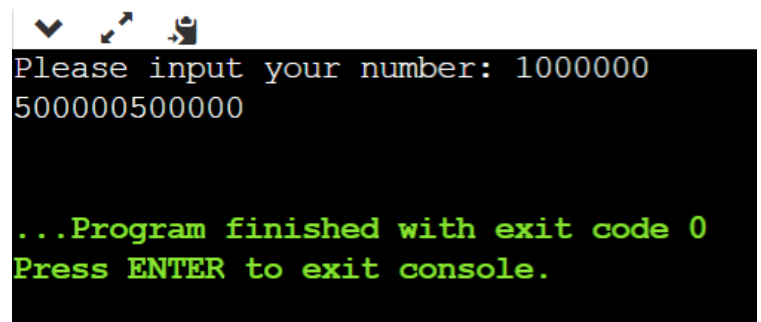
```
1  #include <iostream>
2  #include <cmath>
3  using namespace std;
4
5  int main() {
6
7      long int num_input_user;
8      long int num_calculate;
9      cout << "Please input your number: ";
10     cin >> num_input_user;
11     num_calculate = num_input_user*(num_input_user+1)/2;
12     cout << num_calculate << endl;
13
14     return 0;
15 }
16
```

Input & Output



```
Please input your number: 5
15

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



```
Please input your number: 1000000
500000500000

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