INDIAN INSTITUTE OF TECHNOLOGY ROORKEE



Fundamentals of Object Oriented Programming

CSN-103

Dr. R. Balasubramanian
Associate Professor
Department of Computer Science and Engineering
Indian Institute of Technology Roorkee
Roorkee 247 667

balarfcs@iitr.ac.in

https://sites.google.com/site/balaiitr/

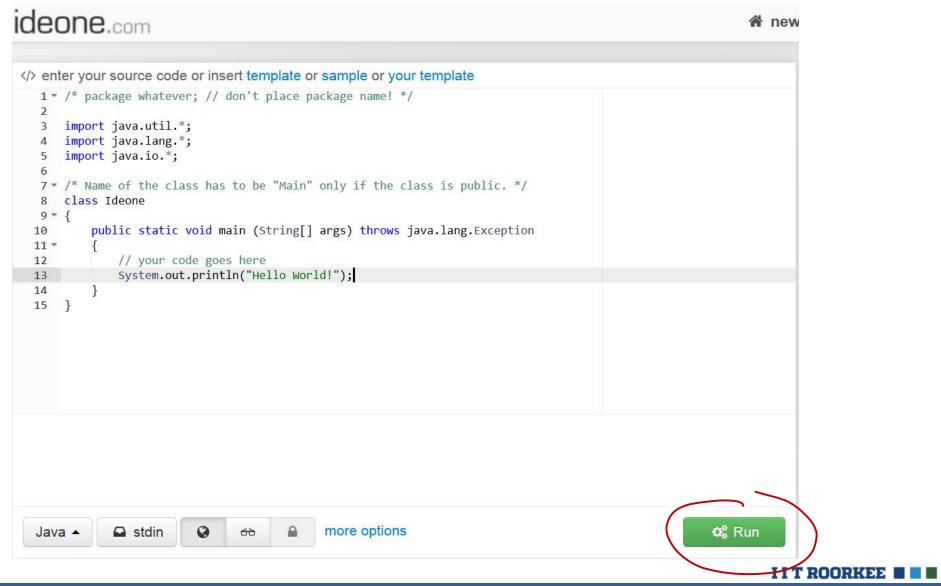


http://ideone.com/



```
ideone.com
                                                                                                         new code
   </> enter your source code or insert template or sample or your template
     1 * /* package whatever; // don't place package name! */
     3 import java.util.*;
     4 import java.lang.*;
      5 import java.io.*;
     7 ▼ /* Name of the class has to be "Main" only if the class is public. */
         class Ideone
      9 - {
            public static void main (String[] args) throws java.lang.Exception
     10
     11 *
                // your code goes here
     13
     14 }
                                              more options
                                                                                                    O# Run
     Java -
```







stdin

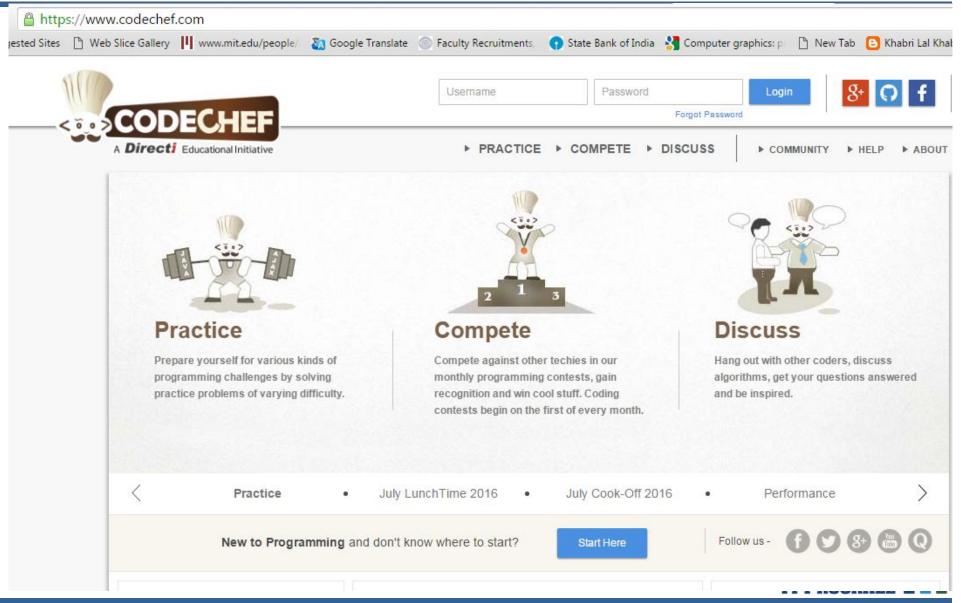
Standard input is empty

Østdout

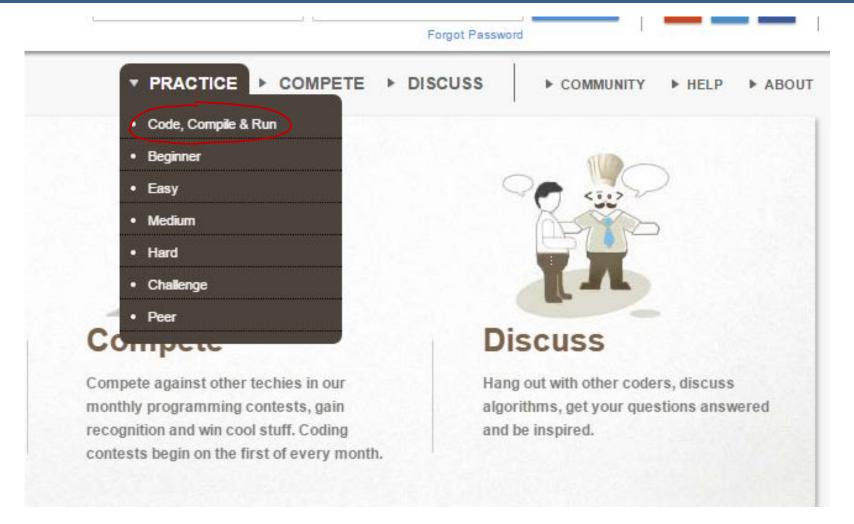
Hello World!

https://www.codechef.com/



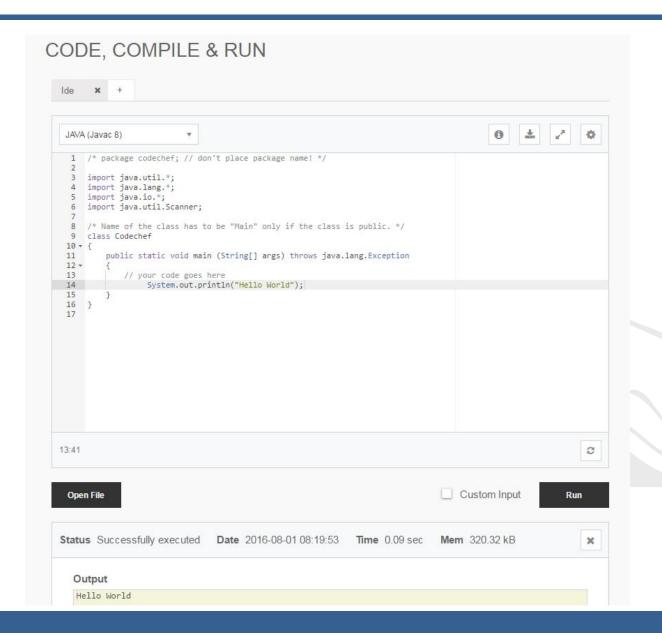






https://www.codechef.com/ide





Finding Square root of a number in C++



```
#include <iostream>
#include <math>
int main()
{int x;
cin>>x;
float y=sqrt(x);
cout<<y;
return 0;
}</pre>
```

Finding Square root of a number in JAVA



```
public class SquareRoot {
 public static void main(String[] args) {
   double x=100;
    double y=Math.sqrt(x);
     System.out.println(y);
     //returns square root of 25.5
     System.out.println(Math.sqrt(25.5));
```

Finding Square root of a number in JAVA



```
1 - public class SquareRoot {
 2
       public static void main(String[] args) {
 3 -
 4
 5
         double x=100;
         double y=Math.sqrt(x);
 7
          System.out.println(y);
 8
          //returns square root of 25.5
 9
          System.out.println(Math.sqrt(25.5));
10
11
                                         P- Terminal
12
                                        sh-4.3$ javac SquareRoot.java
                                        sh-4.3$ java SquareRoot
                                        10.0
   http://goo.gl/Mb5qM8
                                        5.049752469181039
                                        sh-4.3$
```



```
1. /* package whatever; // don't place package name! */
 2.
 import java.util.*;

    import java.lang.*;

 5. import java.io.*;
 6.
 7. /* Name of the class has to be "Main" only if the class is public. */
     class Ideone
 9.
         public static void main (String[] args) throws java.lang.Exception
10.
11.
12.
           // your code goes here
13.
            double x=100;
            double y=Math.sqrt(x);
14.
15.
             System.out.println(y);
16.
17.
             //returns square root of 25.5
              System.out.println(Math.sqrt(25.5));
18.
19.
20.
```

Success

Standard input is empty

http://ideone.com/0jJ4Uj

Stdout

10.0

5.049752469181039

Program to find the addition of Two Numbers in C++



```
#include <iostream>
using namespace std;
int main()
{ int a, b, c;
cout << "Enter two numbers to add\n";</pre>
cin >> a >> b;
c = a + b;
cout <<"Sum of entered numbers = " << c <<
  endl;
return 0;
```



```
import java.util.Scanner;
class AddNumbers
  public static void main(String args[])
      int a, b, c;
      System.out.println("Enter two integers to calculate
      their sum ");
      Scanner in = new Scanner(System.in);
      //System.in as InputStream
     a = in.nextInt();
     b = in.nextInt();
      c = a + b;
      System.out.println("Sum of entered integers = "+c);
```

int a; Scanner in;



```
import java.util.Scanner;
 2 class AddNumbers
3 - {
       public static void main(String args[])
 4
 5 -
          int a, b, c;
 6
          System.out.println("Enter two integers to calculate their sum ");
          Scanner in = new Scanner(System.in);
            //System.in as InputStream
10
         a = in.nextInt();
11
         b = in.nextInt();
12
       c = a + b;
          System.out.println("Sum of entered integers = "+c);
13
14
                                      2- Terminal
15
   1
                                      sh-4.3$ javac AddNumbers.java
16
                                      sh-4.3$ java AddNumbers
                                      Enter two integers to calculate their sum
                                      20 30
 http://goo.gl/1tKdih
                                      Sum of entered integers = 50
                                      sh-4.3$
```

ideone.com



Gedit ₽ fork **download**

```
/* package whatever; // don't place package name! */
2.
     import java.util.*;
     import java.lang.*;
     import java.io.*;
     import java.util.Scanner;
7.
     /* Name of the class has to be "Main" only if the class is public. */
     class Ideone
10.
11.
         public static void main (String[] args) throws java.lang.Exception
12.
13.
             int a, b, c;
           System.out.println("Enter two integers to calculate their sum ");
14.
15.
           Scanner in = new Scanner (System.in);
16.
            //System.in as InputStream
17.
           a = in.nextInt();
18.
           b = in.nextInt();
19.
           c = a + b;
20.
           System.out.println("Sum of entered integers = "+c);
21.
22.
23.
```

http://ideone.com/FEDEaZ



Success #stdin #stdout 0.13s 321344KB

stdin

50 60

Ø[♯] stdout

Enter two integers to calculate their sum Sum of entered integers = 110

http://ideone.com/FEDEaZ

More on Scanner Class



• http://www.cs.utexas.edu/users/ndale/Scanner.html

