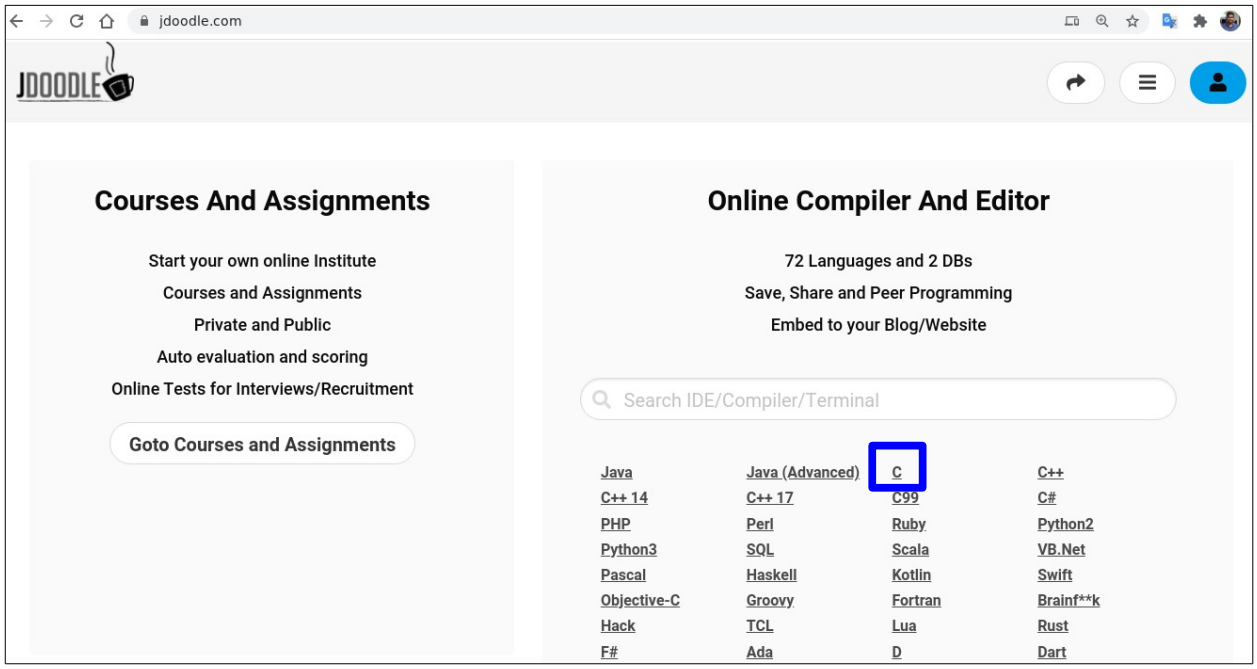
Birla Institute of Technology & Science, Pilani, Hyderabad Campus
Second Semester 2020-2021

Computer Programming [CS F111] Lab 1

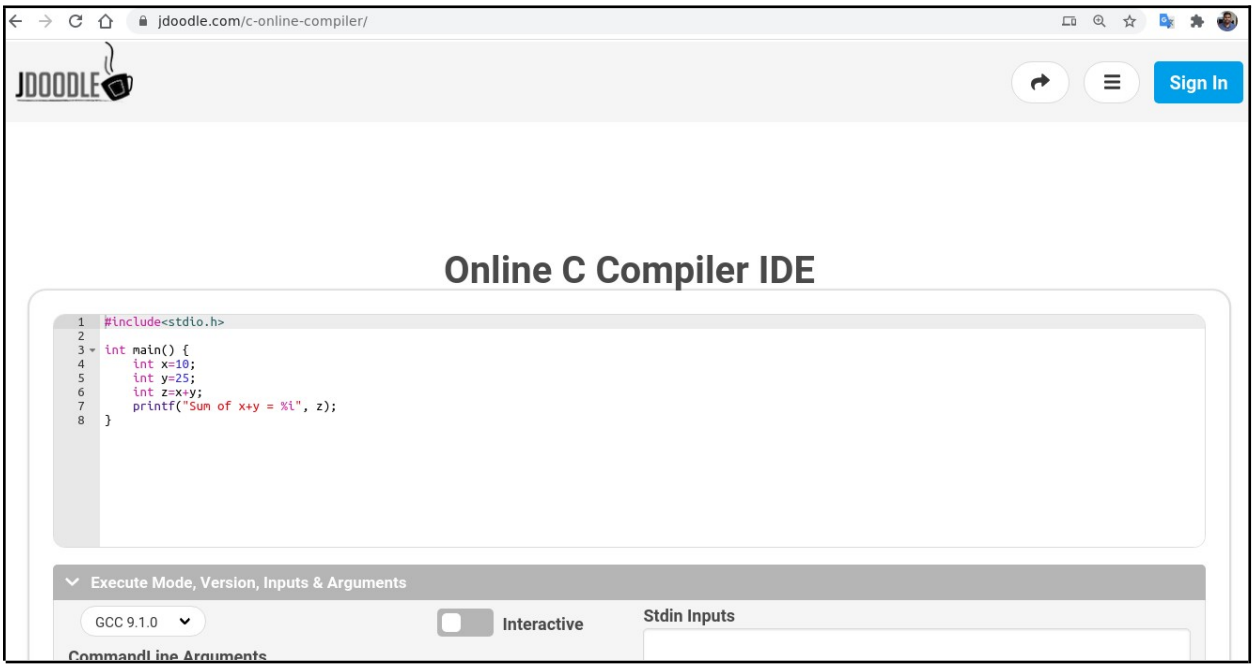
1. Part 1: Introduction to JDoodle

We will be using the JDoodle, an online portal (IDE), for program writing and execution for all our labs. The portal can be as accessed.

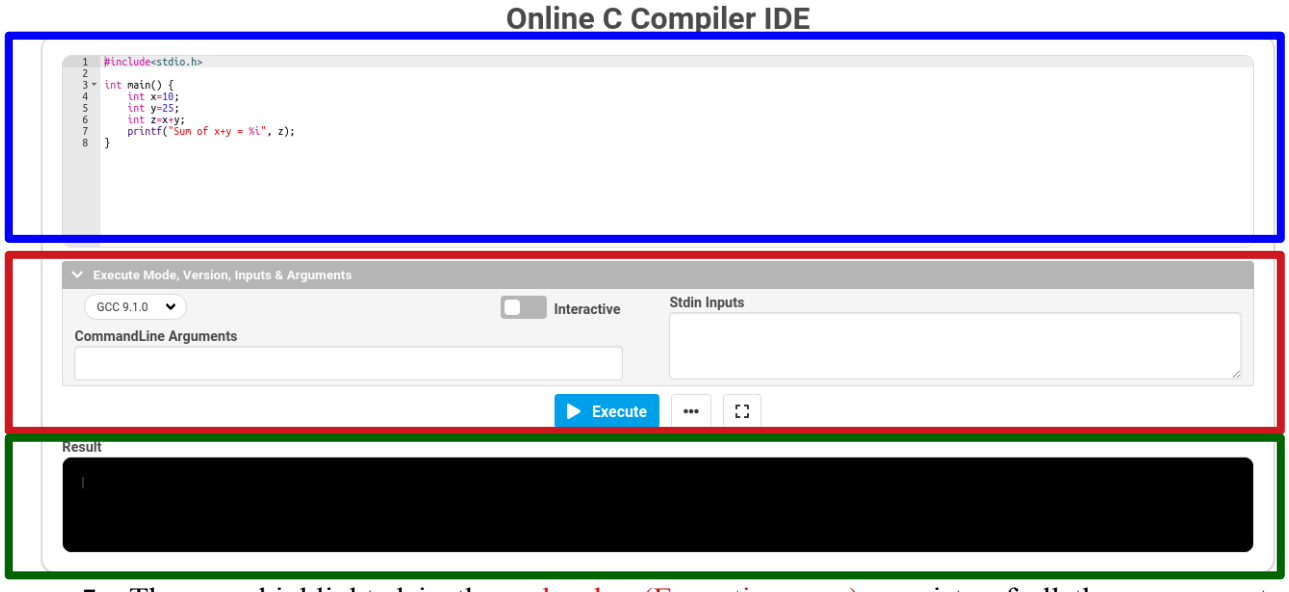
1. In your web-browser address-bar, type https://www.jdoodle.com/ and press ENTER to visit the homepage of the JDoodle which looks like as shown below



2. Click on **C** (highlighted with a blue color in the above figure) to go to the "**Online C Compiler IDE".** **Shortcut**: Type https://www.jdoodle.com/c-online-compiler/ in the Web-browser's address bar and press ENTER. The screen now looks like as shown below.



3. All our programs are written, modified, and executed in this webpage. Its different components are highlighted as shown below.
4. The area highlighted in the blue color (Editing area) corresponds to the position where you write and modify all your programs.



5. The area highlighted in the red color (Execution area) consists of all the components required for executing your program as well as providing input the program, if required any!
   Whenever you would like to execute your program, just click on the Execute button highlighted in this region.

6. The results/errors emanating from the execution of the written program is highlighted in the Green color region (Results area).
7. You can iterate over all these three regions until your desired output is produced.

2. Part 2: Introduction to C

- Write your first c code (in the blue color region) to print "Hello World!" as shown below.

```
//This is a comment: will not be compiled/executed
#include <stdio.h>                    //header file
int main()                            //starting of the program
{
      /* my first program in C */     //multi line comment
      printf ("Hello, World!");       //print characters to screen

      printf ("\n");                  //print new line
      return 0;                       //return from the program
}
```

- Click on the Execute button (inside the Execution area) to see the output in the Result area as shown below.

Part 3: Exercises

1. In the above program, remove any semicolon (;) and observe the output on execution.
2. In the above program, remove the second printf statement, `printf ("\n");`, and observe the output on execution.
3. In the above program, remove the line starting with # and observe the output on execution.

4. In the above program, remove the `return 0;` statement and observe the output on execution.
5. In the above program, remove `/* my first program in C */` and observe the output on execution.

********** GOOD LUCK **********