Dear students,

The best way to learn to code is not by passively listening to someone explain programming - it is by actually writing code. So, in order to facilitate that, I'll be periodically giving you programming exercises to do purely for you to practise and learn the concepts and become good programmers. Below are the instructions for the first exercise.

Scenario
Imagine you're building an app that allows users to write reviews for restaurants. Write a C++ program to implement the following features of this app.

Part 1 - Basics (simple variable declaration and I/O operations)
1. Create two variables - restaurant ID and rating with suitable data types (e.g., you can use *int* for the restaurant ID and *float/double* for the rating)
2. Read the values for both variables as input from the user (*hint:* you have to use *cin* for input)
3. Display the following output: "Restaurant [RESTAURANT ID HERE] has a rating of [RATING HERE] (hint: you have to use *cout* for output)

Part 2 - Intermediate (strings and arithmetic operations)
1. Include a new variable - a restaurant name (you have to look up how to use strings in C++, Google it and do your own research)
2. Get the restaurant name as input from the user
3. Instead of getting just one rating for the restaurant, get two ratings (for the same restaurant, so, you only need one restaurant ID and restaurant name, but you need two variables for the two different ratings)
4. Calculate the average of the two ratings
5. Display the following output: "Restaurant [RESTAURANT NAME HERE] with an ID of [RESTAURANT ID HERE] has an average rating of [AVERAGE RATING HERE]"

Part 3 - Advanced (using functions)
1. Mostly the same as part 2, but instead of calculating the average rating in the main function, create a new function called *calculateAverageRating()* or similar that takes the two ratings values as input and returns the average as output
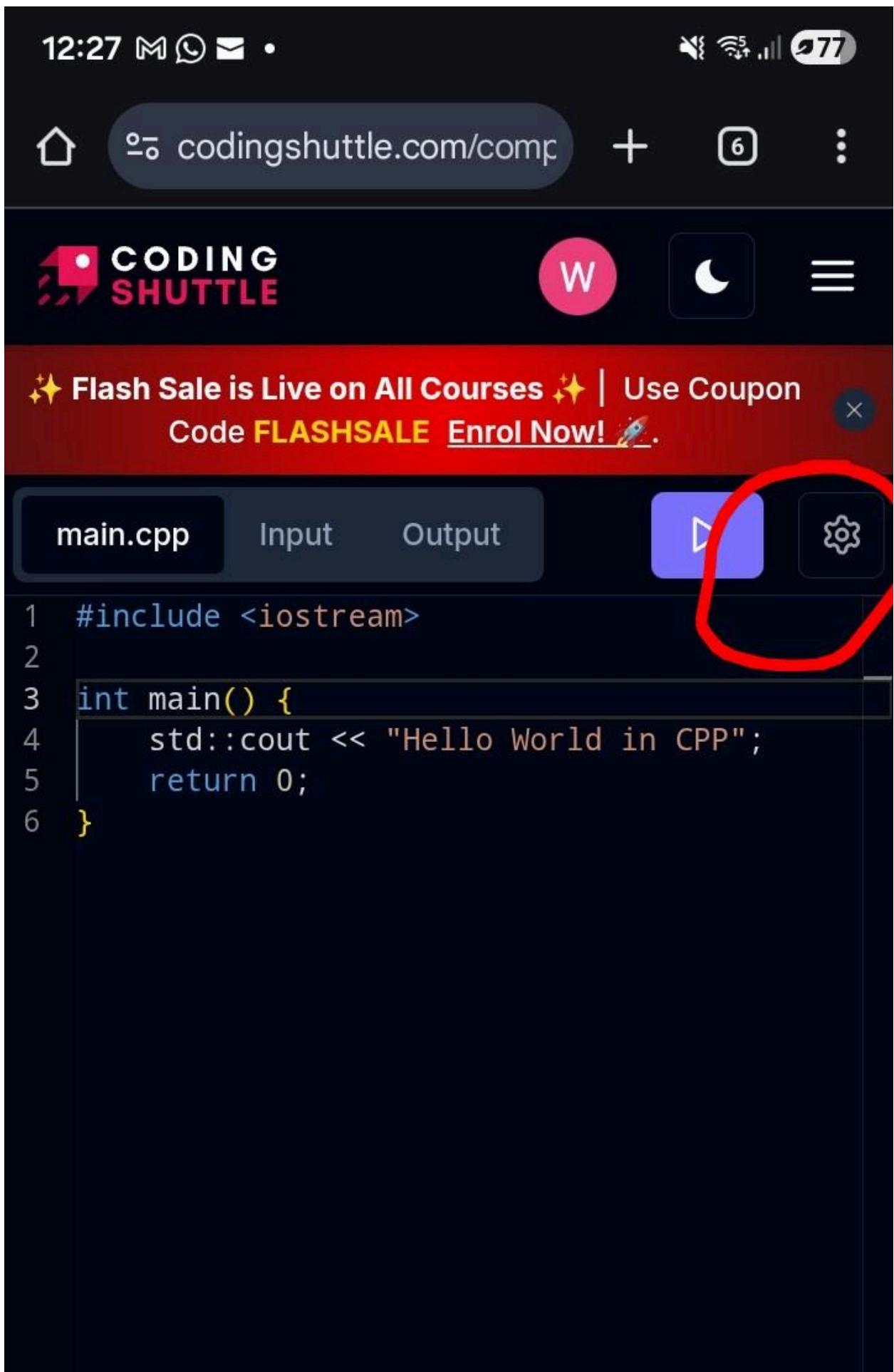
You can write your code using an online compiler such as this one: https://www.codingshuttle.com/compilers/cpp/
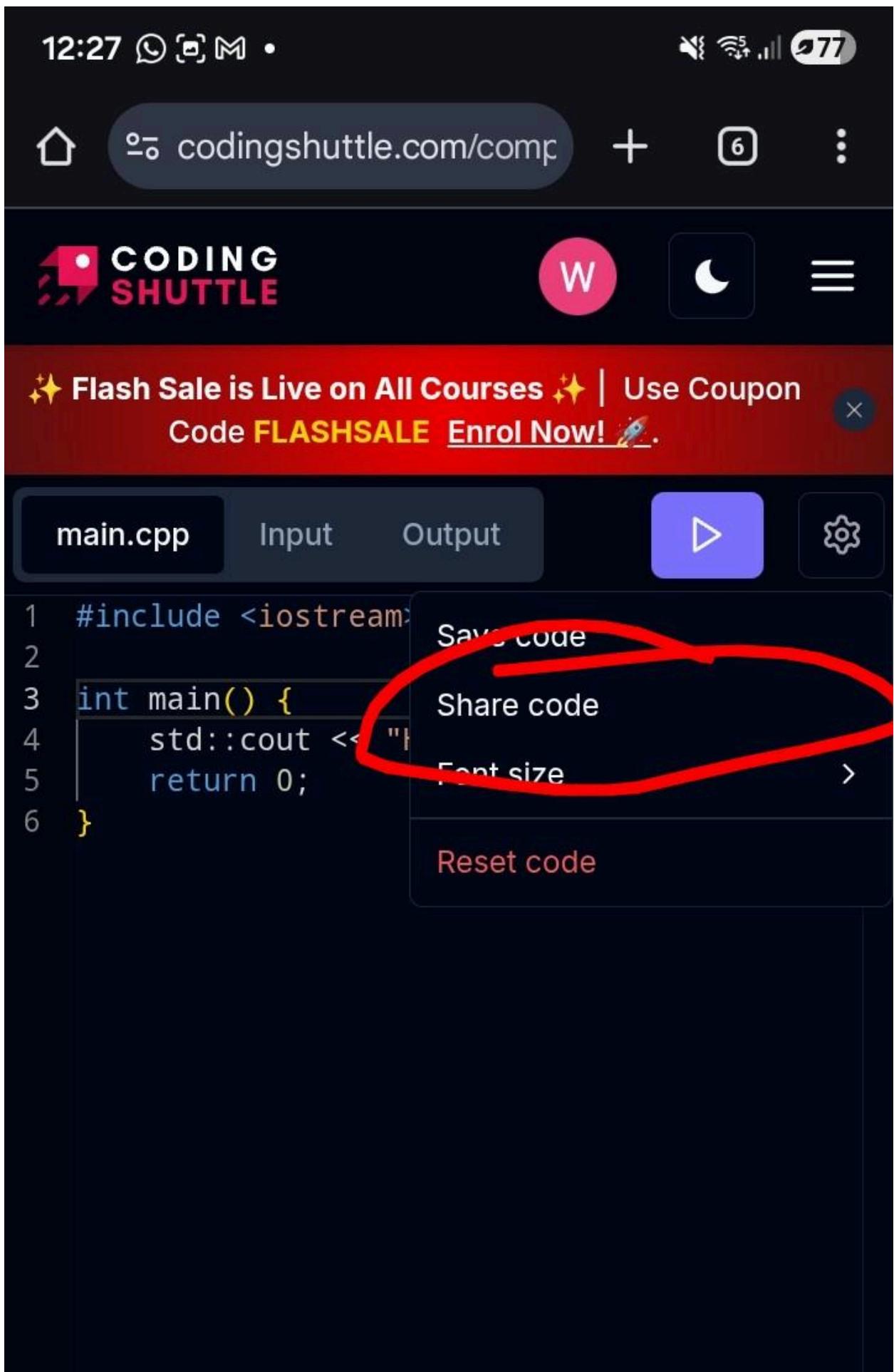
I highly recommend creating an account so that you can save your code and share it with others. To submit your code, you need to share the link with me (see attached screenshots). You can do so by pasting the link in the submission box on GCR or by sending me the link on WhatsApp.

Happy coding!

Kind regards,
Walter

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| main.cpp | Input | Output | ▷ | ⚙ |

```cpp
1  #include <iostream>
2
3  int main() {
4      std::cout << "Hello World in CPP";
5      return 0;
6  }
```

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main.cpp   Input   Output   ▷   ⚙️

```cpp
1   #include <iostream>
2
3   int main() {
4       std::cout << "H
5       return 0;
6   }
```

Save code

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Share code   ✕

View Only Mode

Turn on "view only" mode if you don't want others to edit the code

Save & Share