

# Context Free Grammar

---

Group 7 team members

---

Kabwali Muuka

Edward

Gabriel

Robert

---

When you click Auto Generate Sentence button.

The code will randomly Generate sentences, some sentences won't make sense.

Go ahead and try it out

---

Auto Generate Sentence

Kabs Muuka is in group 7, and we are a team of 5 members.

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Auto Generate Sentence

Our task is to implement a context-free grammar in Javascript.

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Auto Generate Sentence

What's up Bob!

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Auto Generate Sentence

Our team consists of Kabs Muuka, Bob, Kabs Muuka, Kabs Muuka, and Gilbert.

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Gabriel

Robert

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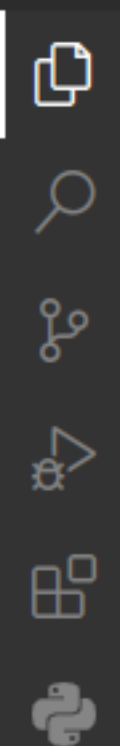
When you click Auto Generate Sentence button.  
The code will randomly Generate sentences, some sentences won't make sense.  
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---

Auto Generate Sentence

We need to create a program that generates sentences based on a set of rules.

File Edit Selection View Go Run Terminal Help



EXPLORER



&lt;&gt; index.html

JS Main.js



OPEN EDITORS

&lt;&gt; index.html

X JS Main.js

CONTEXT\_FREE\_GRAMMAR

&gt; js

&gt; lib

# css.css

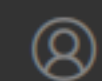
&lt;&gt; index.html

JS Main.js

JS tracery.js

JS Main.js &gt; ...

```
1 // Grammar rules
2 let rules = {
3     "start": ["#Greeting# #Name#!", "#Task#", "#Team#"],
4     "Task": ["We have been given an assignment on Context Free Grammar! And this is a sample code.",
5             "Our task is to implement a context-free grammar in Javascript.",
6             "The assignment is about generating random sentences using context-free grammar.",
7             "We need to create a program that generates sentences based on a set of rules."],
8     "Greeting": ["Hello", "Hi", "Hey", "Greetings", "Safe", "How are you doing", "Yo", "What's up"],
9     "Name": ["Kabs Muuka", "Bob", "Edward Jr", "Gilbert"],
10    "Team": ["#Name# is in group 7, and we are a team of 5 members.",
11            "Our team consists of #Name#, #Name#, #Name#, #Name#, and #Name#.",
12            "In our team, we have #Name#, #Name#, #Name#, #Name#, and #Name#.",
13            "We are a team of 5 members, including #Name#, #Name#, #Name#, #Name#, and #Name#."]
14 };
15
16 let grammar;
17 //function that calls the GenerateCode() when the button is clicked
18 function GenerateCode(){
19     grammar = tracery.createGrammar(rules);
20     let result = grammar.flatten("#start#");
21     //prints out the results
22     console.log(result);
23
24     //renders to the html Webpage
25     let storyOutput = document.getElementById("storyOutput");
26     storyOutput.textContent = result;
27 }
```



&gt; OUTLINE

&gt; TIMELINE