

College of Engineering
Computer Science & Eng. Dept.
Course: CMP 257L
Web App Programming Lab



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Lab 4: Introduction to GitHub and JavaScript

➤ **Objectives:**

- Introduction to GitHub
- Introduction to JavaScript

Exercise 1: Github

[3 marks]

Use the project you've been working on for the last few labs for this exercise.

Using the accompanying document with GitHub instructions, create a repository for your website. Add your lab partner to the repository and then have him/her clone your repository, make a small change, and push.

Pull the updated code on your side.

Give screenshots of all the steps you followed, including creating the repo, cloning, committing, pushing, and pulling.

Screenshot:

you get started.

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or your

[See more about collaborative coding](#) →

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[See more about automation and CI/CD](#) →

on test
rkflow.

View as: Public ▾

You are viewing the README and pinned repositories as a public user.

You can [create a README file](#) visible to anyone.

You can [hide the tasks we've suggested](#) on this page and bring them back later.

Discussions

Set up discussions to engage with your community!

[Turn on discussions](#)

Repositories

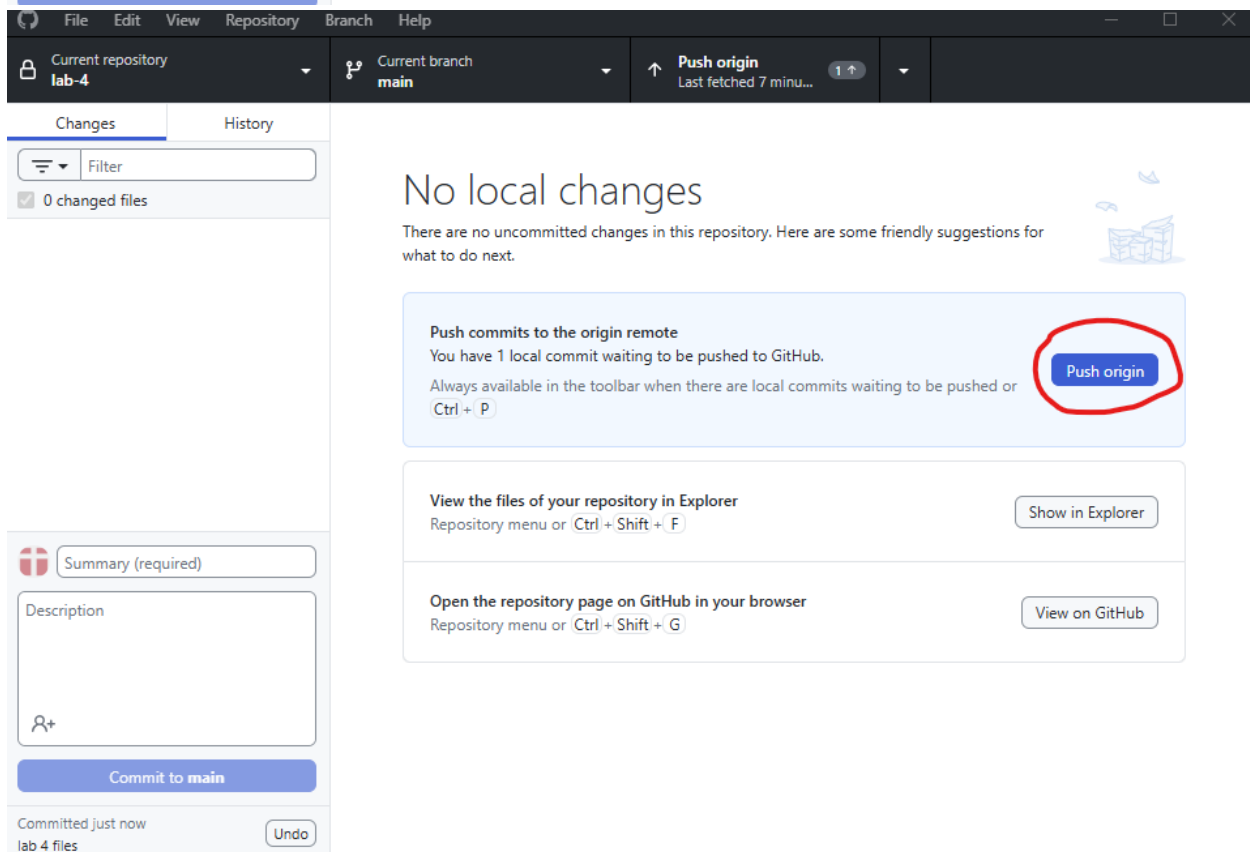
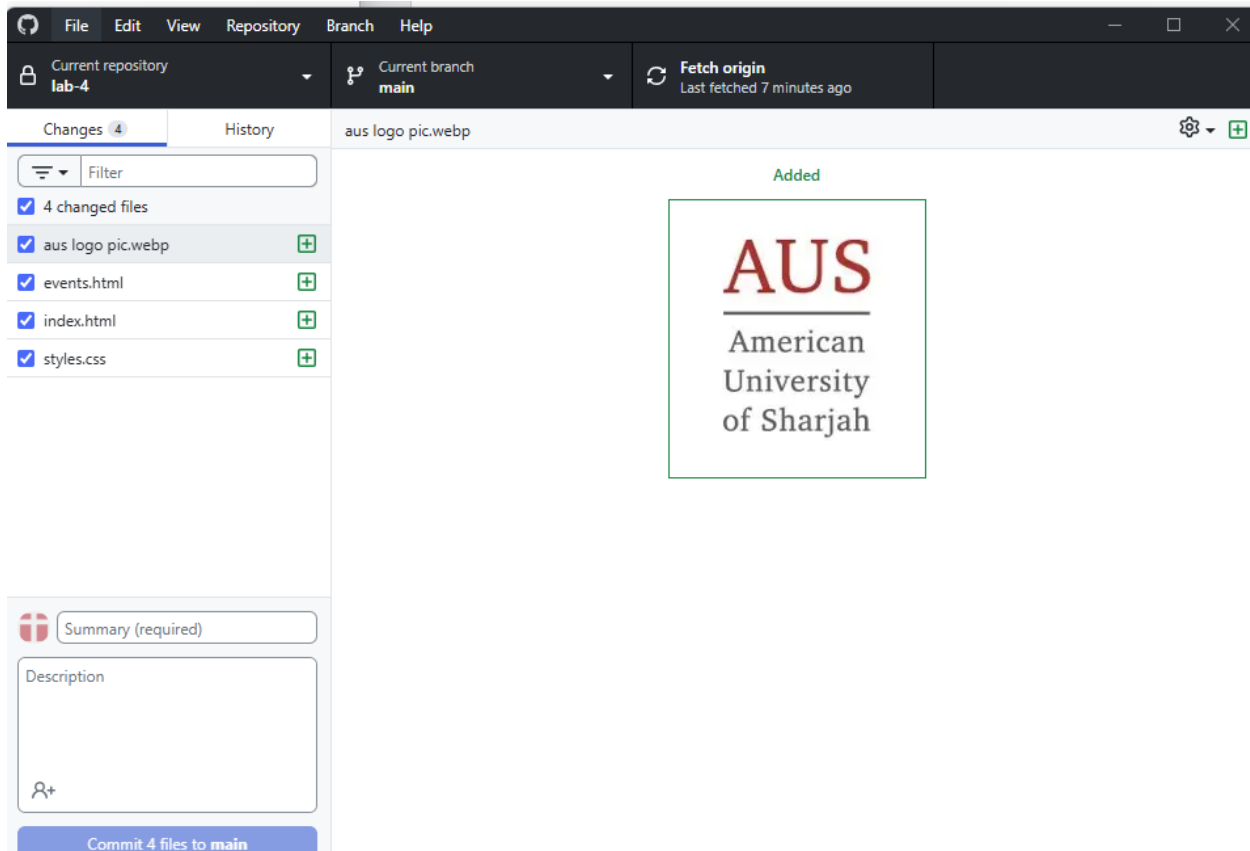
Create new repository

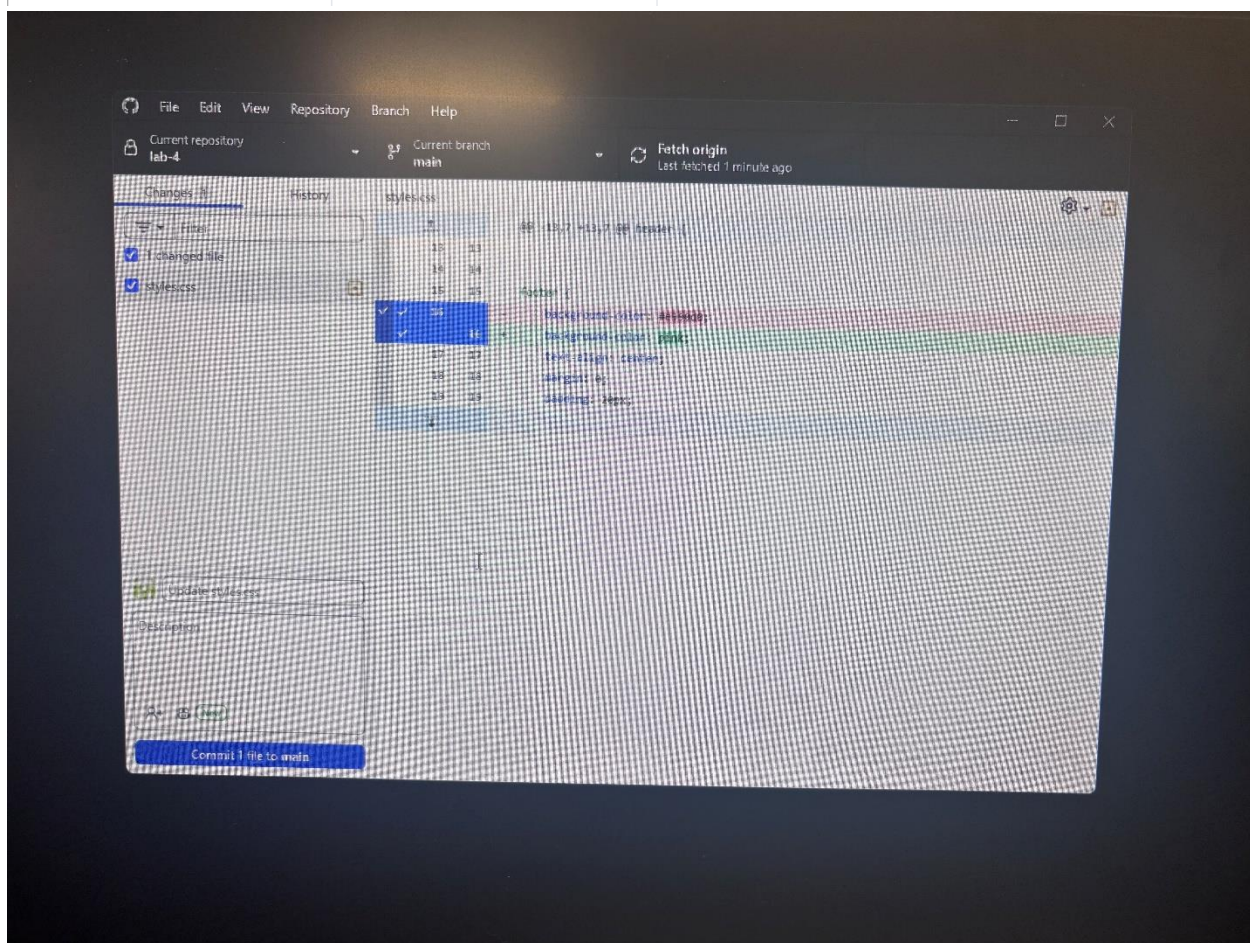
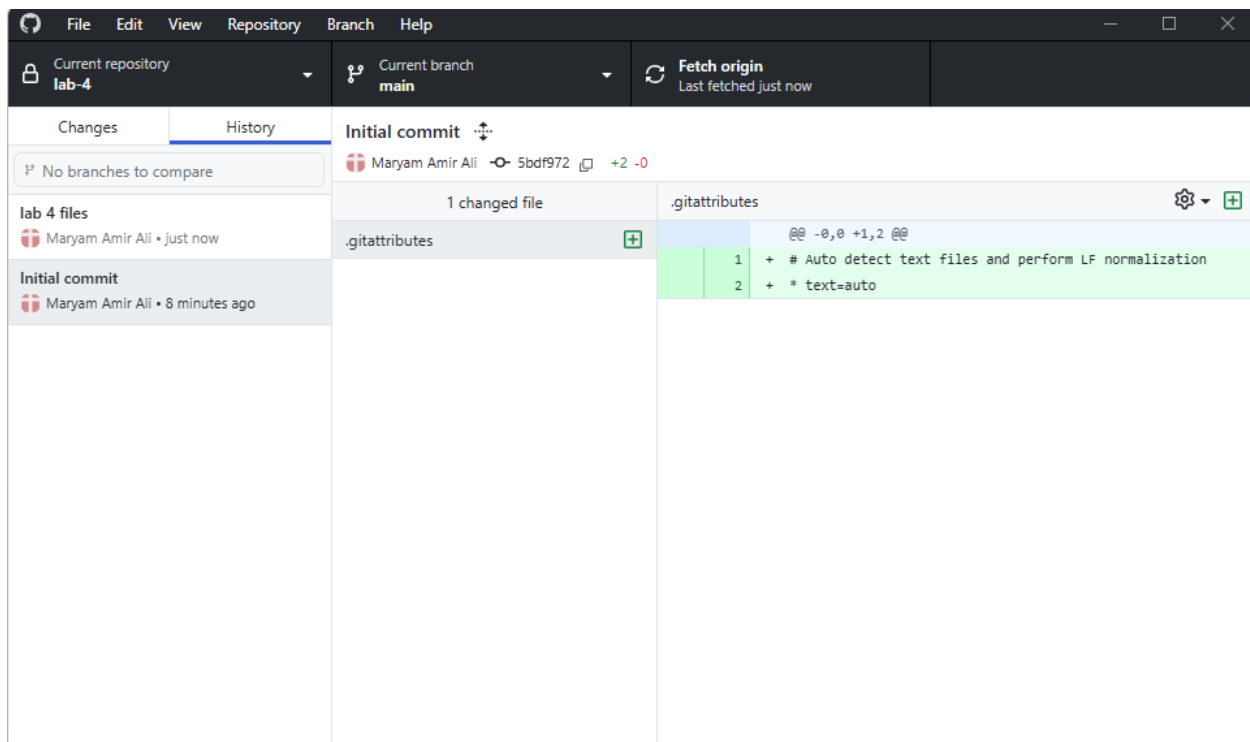
[Import](#)

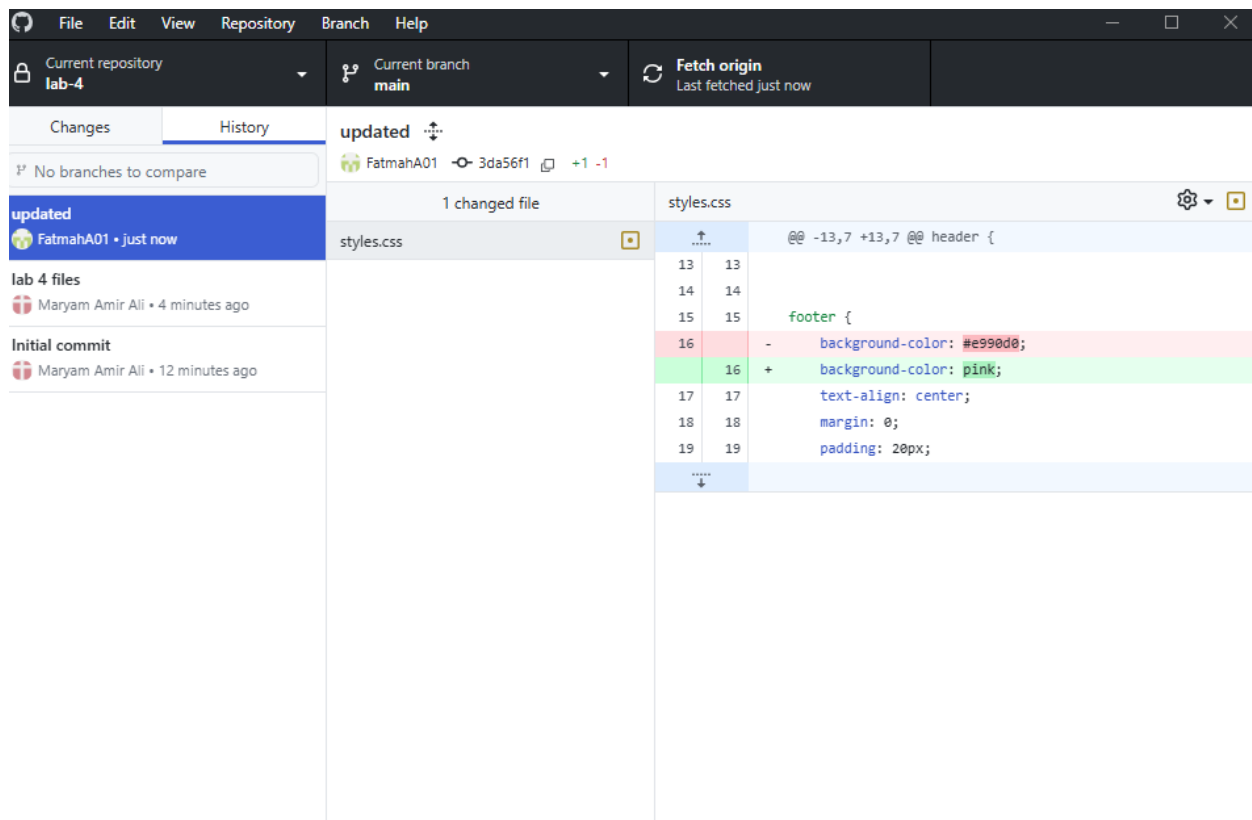
People



Invite someone







Exercise 2: JavaScript

[7 marks]

Solve the following exercises using any JavaScript compiler of your choice. You can use the console within your browser or online compilers such as <https://jsbin.com/>

For each sub exercise, paste the code and a screenshot of your output.

2a. How Many Pizzas?

- Imagine you have **3 slices of pizza**, but you're really hungry and order **2 more pizzas**. Each pizza has **8 slices**. You want to calculate the total number of slices you have.
- Create a program that initializes variables for initial and final number of slices and calculates how many pizza slices you have in total.
- Print out a message to the console informing the user of the number of slices eg. "I have X slices of pizza. Time for a pizza party!"

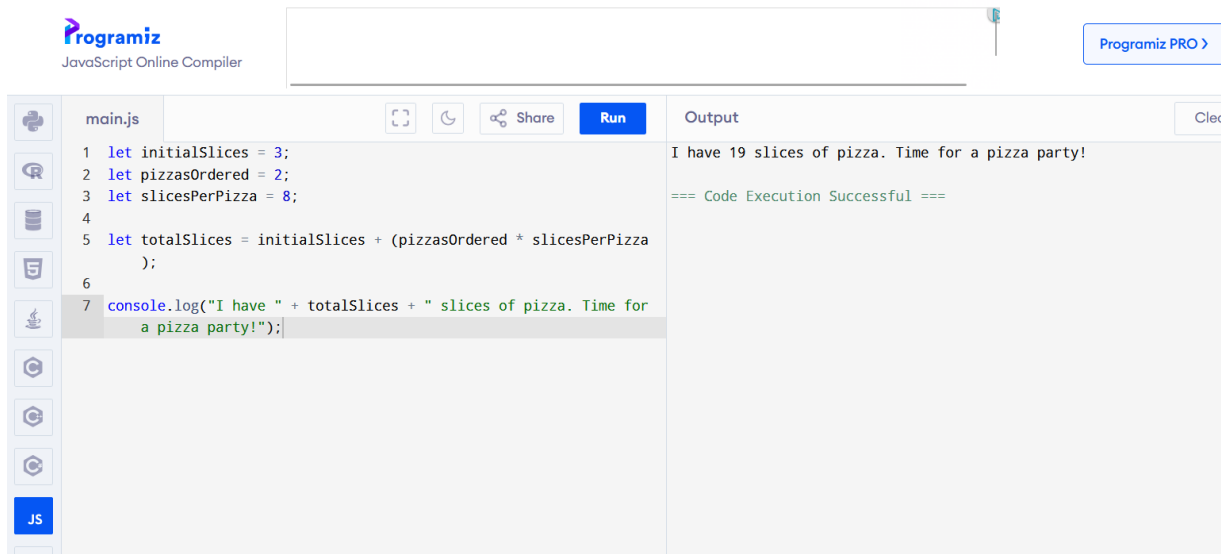
Code:

```
let initialSlices = 3;
let pizzasOrdered = 2;
let slicesPerPizza = 8;
```

```
let totalSlices = initialSlices + (pizzasOrdered * slicesPerPizza);
```

```
console.log("I have " + totalSlices + " slices of pizza. Time for a pizza party!");
```

Screenshot:



2b. The Procrastination Timer


- Write a function that takes the number of minutes you've already studied as input.
- If you've studied for more than 60 minutes, log "Wow! You deserve a break! Go scroll through some reels!"
- If you've studied for less than 60 minutes, log "Keep going! The course is long and full of terrors!"


Code:


```
function procrastinationTimer(minutes) {
  if (minutes > 60) {
    console.log("Wow! You deserve a break! Go scroll through some reels!");
  } else {
    console.log("Keep going! The course is long and full of terrors!");
  }
}
```

```
procrastinationTimer(75);
```

Screenshot:


JavaScript Online Compiler








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main.js




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Run

```

1- function procrastinationTimer(minutes) {
2-   if (minutes > 60) {
3-     console.log("Wow! You deserve a break! Go scroll through some reels!");
4-   } else {
5-     console.log("Keep going! The course is long and full of terrors!");
6-   }
7- }
8-
9- procrastinationTimer(45);

```

Output

Keep going! The course is long and full of terrors!

=== Code Execution Successful ===

Clear


JavaScript Online Compiler





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main.js




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Run

```

1- function procrastinationTimer(minutes) {
2-   if (minutes > 60) {
3-     console.log("Wow! You deserve a break! Go scroll through some reels!");
4-   } else {
5-     console.log("Keep going! The course is long and full of terrors!");
6-   }
7- }
8-
9- procrastinationTimer(75);

```

Output

Wow! You deserve a break! Go scroll through some reels!

=== Code Execution Successful ===

Clear

2c. Coffee Addiction Tracker

- You need to stay awake for **5 days** of finals week, and you drink **3 cups of coffee per day** to survive.
- Write a while loop that calculates how many cups of coffee you'll drink in total over the 5 days.
- Display an alert like "You'll need X cups of coffee to survive finals week!"

Code:

```
let days = 5;
```

```
let cupsPerDay = 3;
```

```
let totalCups = 0;
```

```
let i = 1;
```

```
while (i <= days) {  
    totalCups += cupsPerDay;  
    i++;  
}
```

```
alert("You'll need " + totalCups + " cups of coffee to survive finals week!");
```

Screenshot:

The screenshot shows the Programiz JavaScript Online Compiler interface. At the top, there are banners for Programiz, a car advertisement, and a flight advertisement. The main editor area displays a JavaScript file named 'main.js' with the following code:

```
1 let days = 5;  
2 let cupsPerDay = 3;  
3 let totalCups = 0;  
4  
5 let i = 1;  
6 while (i <= days) {  
7     totalCups += cupsPerDay;  
8     i++;  
9 }  
10  
11 alert("You'll need " + totalCups + " cups of coffee to survive  
    finals week!");
```

The 'Run' button is highlighted. The 'Output' panel on the right shows the result of the execution:

```
You'll need 15 cups of coffee to survive finals week!  
=== Code Execution Successful ===
```

The screenshot shows the Programiz JavaScript Online Compiler interface. At the top, there are banners for Programiz, a car advertisement, and a flight advertisement. The main editor area displays a JavaScript file named 'main.js' with the following code:

```
1 let question = prompt("Ask me something!");  
2  
3 switch (true) {  
4     case question.includes("dinner"):   
5         console.log("I'm a robot. I don't eat, but how about pizza?"  
6         );  
7         break;  
8     case question.includes("time"):   
9         console.log("It's time to learn JavaScript!");  
10        break;  
11    default:  
12        console.log("Sorry, I only care about food and coding.");  
13 }
```

The 'Run' button is highlighted. The 'Output' panel on the right shows the result of the execution:

```
Ask me something!what time is it?  
It's time to learn JavaScript!  
=== Code Execution Successful ===
```




Since you love talking to AI, let's create a simple bot.

- Create a program that simulates a conversation with your AI bot.
- Use a prompt to get a question from the user.
- Use a `switch` statement to give different responses based on what you ask:
 - If you ask "What's for dinner?", the bot says, "I'm a robot. I don't eat, but how about pizza?"
 - If you ask "What time is it?", the bot says, "It's time to learn JavaScript!"
 - If you ask anything else, the bot responds, "Sorry, I only care about food and coding."
- Use the `includes()` method to check for keywords.

Code:

```
let question = prompt("Ask me something!");
```

```
switch (true) {
```

```
  case question.includes("dinner"):
```

```
    console.log("I'm a robot. I don't eat, but how about pizza?");
```

```
    break;
```

```
  case question.includes("time"):
```

```

    console.log("It's time to learn JavaScript!");

    break;

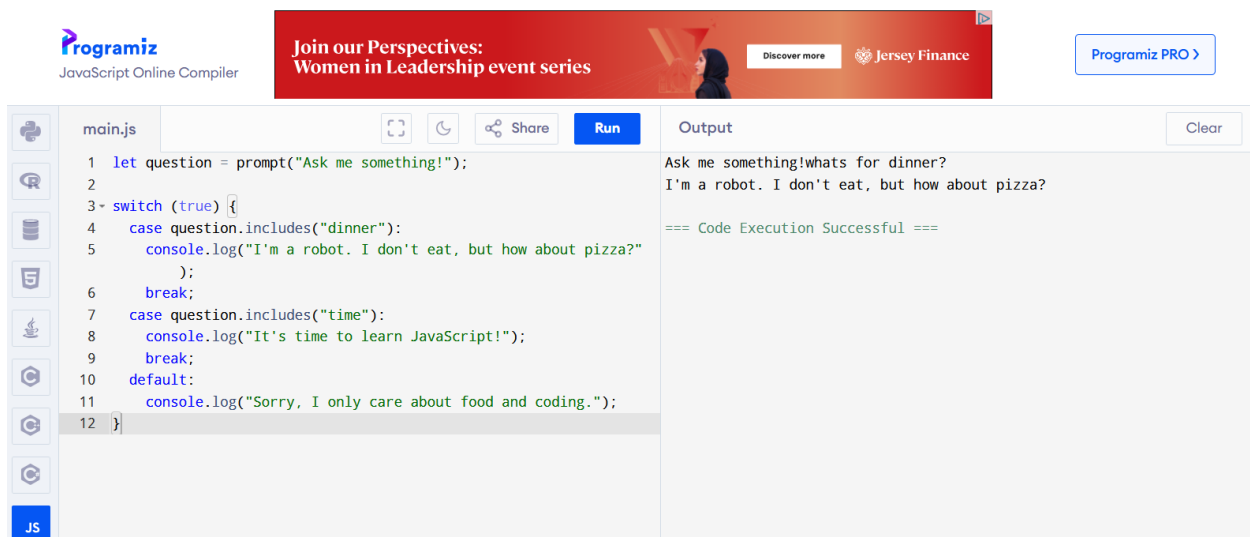
default:

    console.log("Sorry, I only care about food and coding.");

}

```

Screenshot:



2e. Superheroes!

- Create a JavaScript object called superhero with properties name, power, and city.
- Add a method introduce that logs a message introducing the superhero.
- Log the superhero's introduction to the console.

Code:

```

let superhero = {
  name: "Batman",
  power: "Wings",
  city: "Gotham City",

```

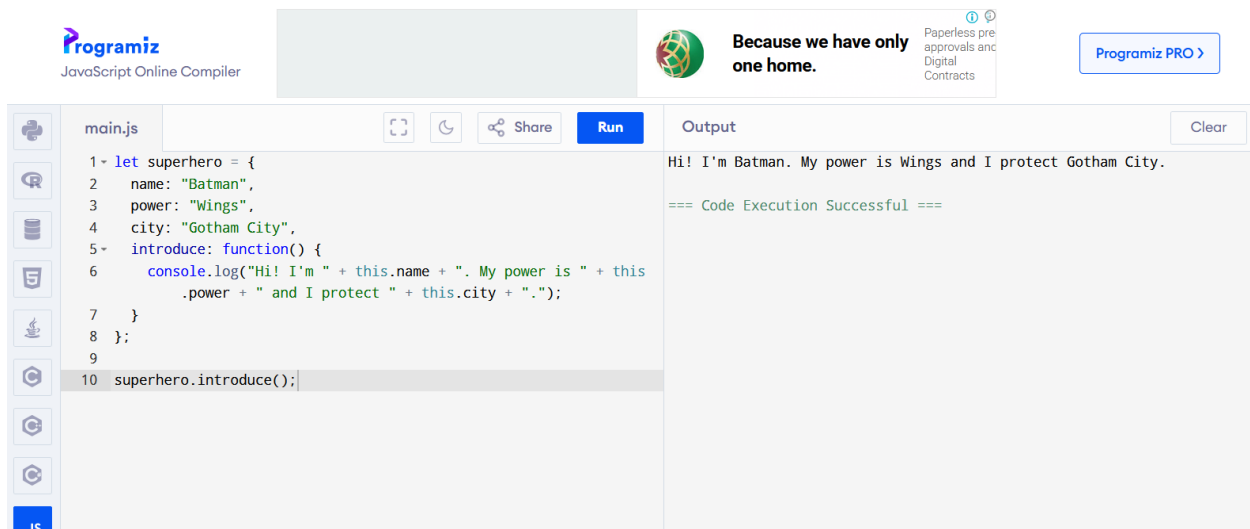
```

    introduce: function() {
      console.log("Hi! I'm " + this.name + ". My power is " + this.power + " and I protect " +
this.city + ".");
    }
  };

```

superhero.introduce();

screenshot:



2f. Guess the number

- Prompt the user to guess your favorite number.
- Use a strict equality (===) check to compare their guess with the correct number.
- Log a different message based on whether they guessed correctly or not.

Code:


```

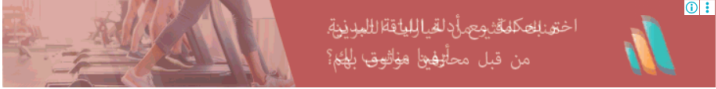
let favoriteNumber = 7;
let guess = prompt("Guess my favorite number:");

if (parseInt(guess) === favoriteNumber) {
  console.log("Correct! You guessed my favorite number!");
} else {
  console.log("Nope! That's not my number.");
}

```


Screenshot:


JavaScript Online Compiler



[Programiz PRO >](#)

main.js



```
1 let favoriteNumber = 7;
2 let guess = prompt("Guess my favorite number:");
3
4 if (parseInt(guess) === favoriteNumber) {
5   console.log("Correct! You guessed my favorite number!");
6 } else {
7   console.log("Nope! That's not my number.");
8 }
```

Run

Share

Clear

Output

Guess my favorite number:8
Nope! That's not my number.

=== Code Execution Successful ===

Submission:

Upload the following to iLearn:

- A word document containing screenshots from exercise 1 and code and screenshots of all problems in exercise 2.