Lesson 03 Demo 01

Implementing if-else Conditions for Applying Promo Codes

Objective: To demonstrate how to implement if-else conditions to apply promo codes and calculate discounts based on specific conditions

Tools Required: Visual Studio Code and Node.js

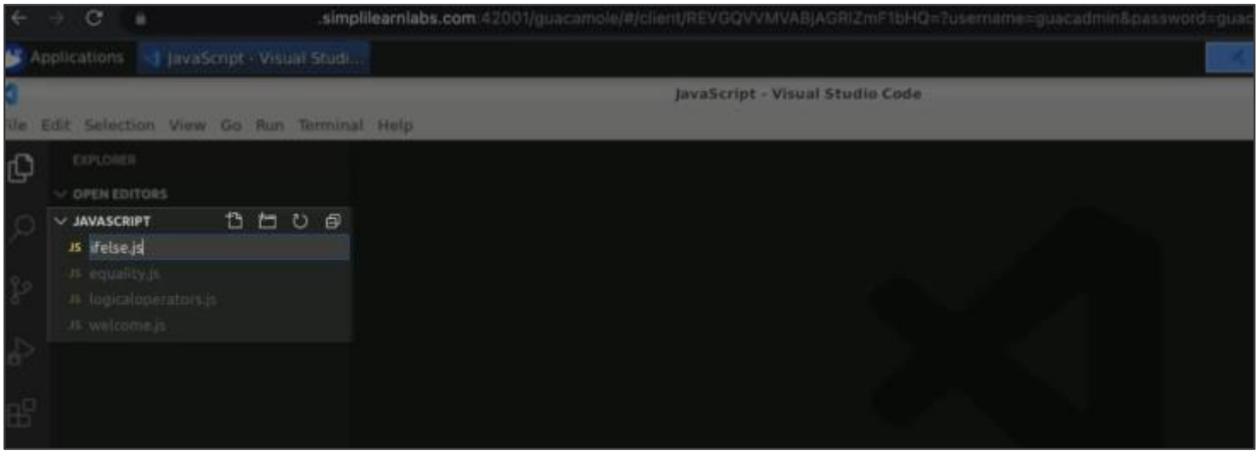
Prerequisites: None

Steps to be followed:

1. Write an algorithm to apply promo codes and calculate discounts
2. Test the code with different promo codes and amounts

Step 1: Write an algorithm to apply promo codes and calculate discounts

1.1 Open Visual Studio Code and create a new JavaScript file named **ifelse.js**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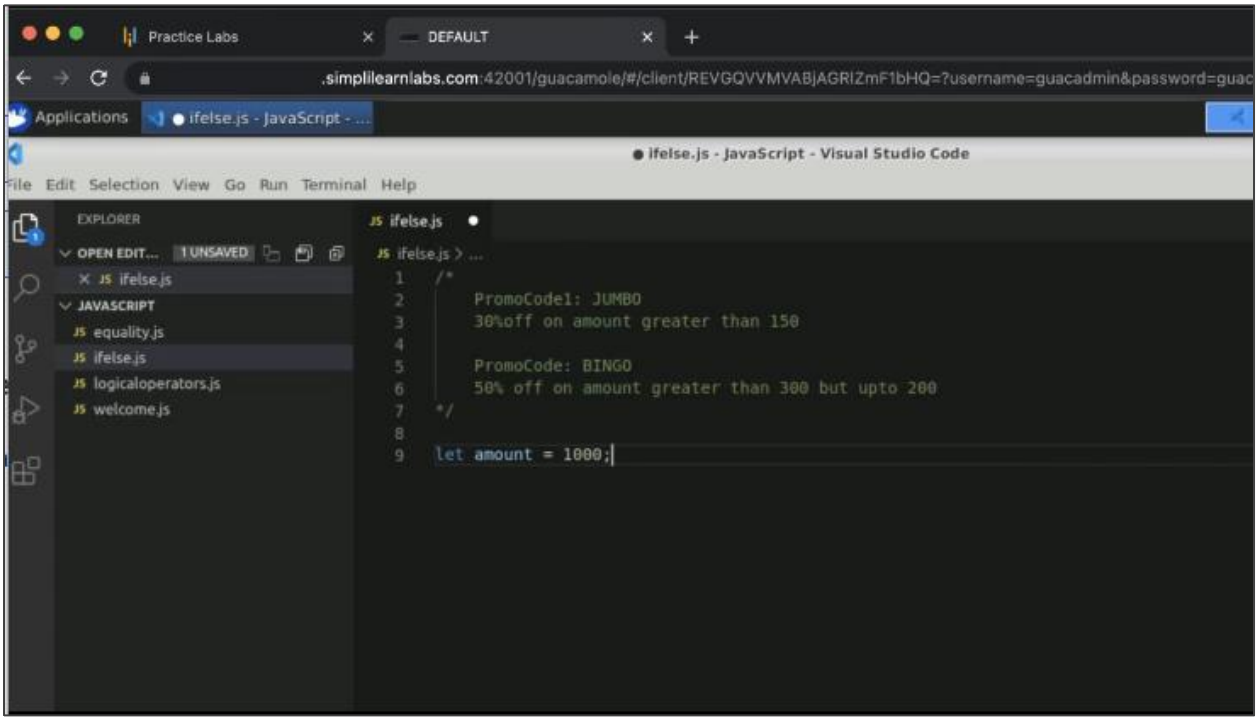
EXPLORER
OPEN EDITORS
JAVASCRIPT
ifelse.js
equality.js
logicaloperators.js
welcome.js

1.2 Initialize the amount variable with a specific value. For example:

let amount = 1000;


Practice Labs
DEFAULT
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equality.js
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logicaloperators.js
welcome.js
ifelse.js
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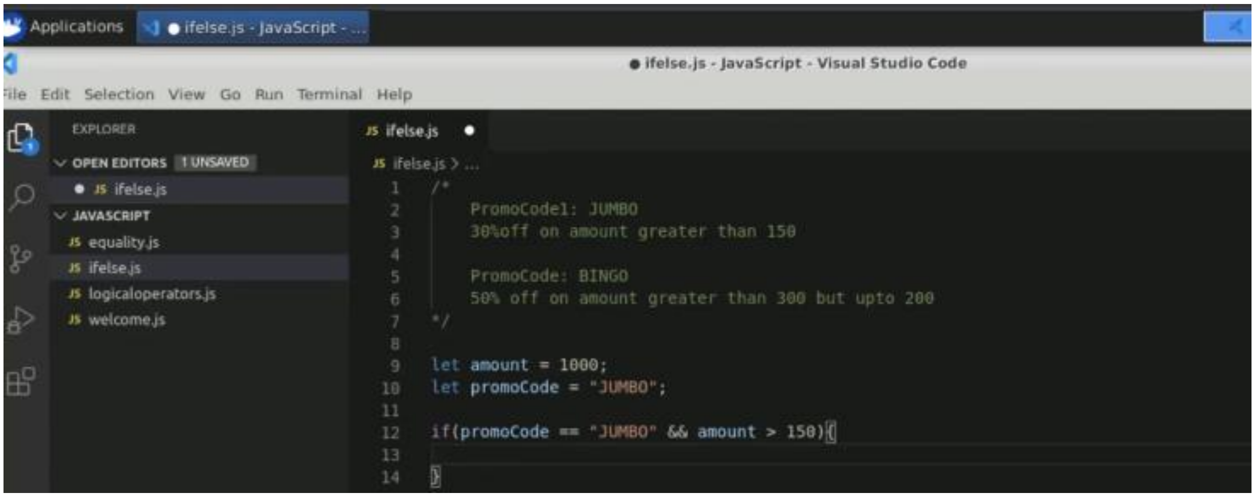
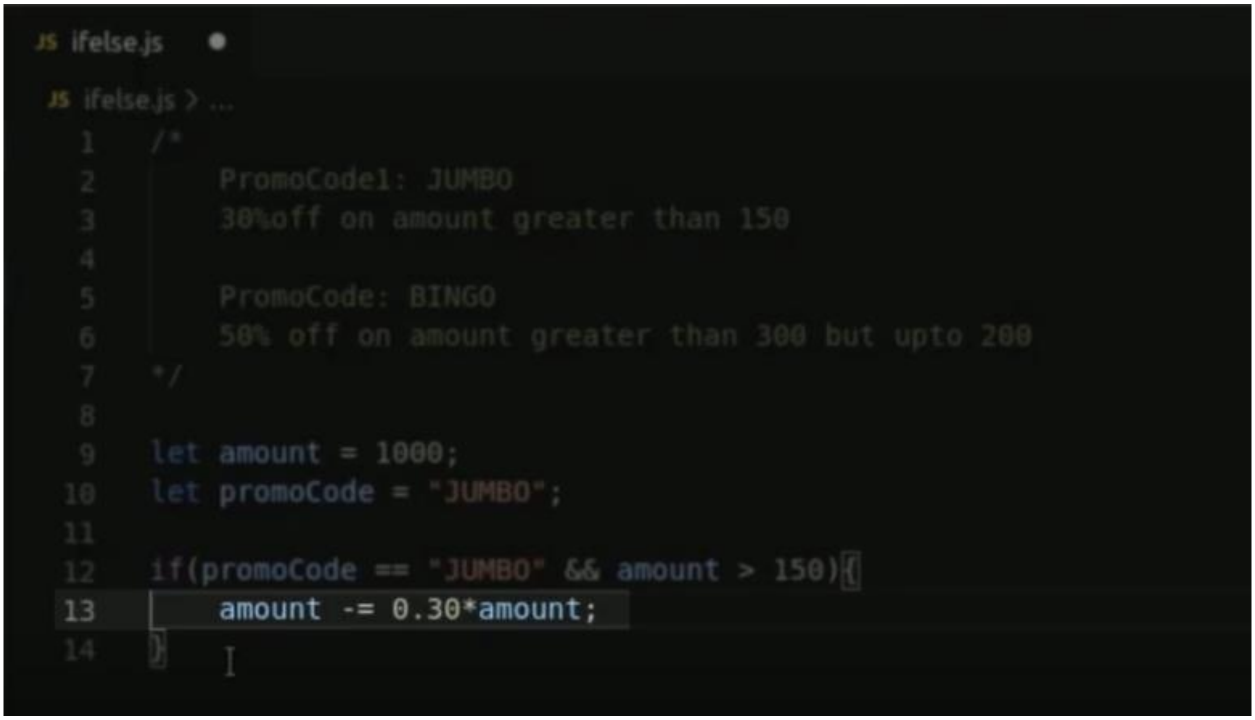
```
/*
    PromoCode1: JUMBO
    30%off on amount greater than 150

    PromoCode: BINGO
    50% off on amount greater than 300 but upto 200
*/

let amount = 1000;
```

1.3 Use an if-else statement to check the promo code and apply the corresponding discount conditions. Check if the promo code is equal to **JUMBO** and the amount is greater than or equal to **150**



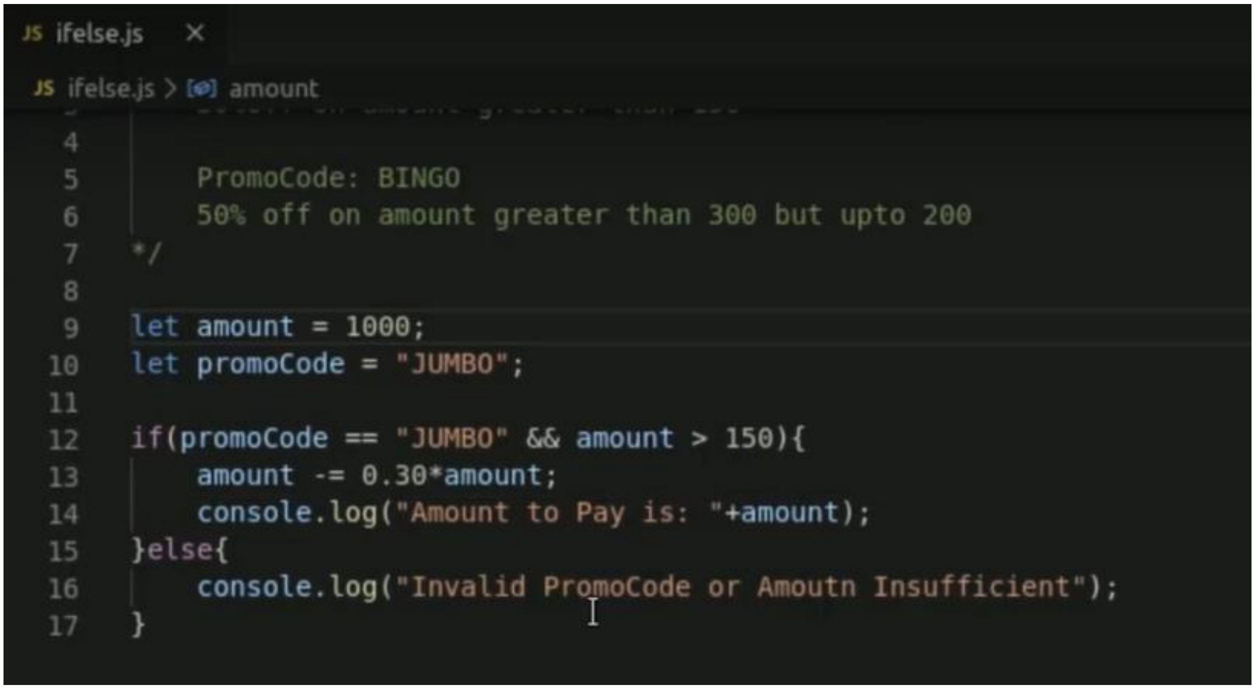
```
/*
    PromoCode1: JUMBO
    30%off on amount greater than 150

    PromoCode: BINGO
    50% off on amount greater than 300 but upto 200
*/

let amount = 1000;
let promoCode = "JUMBO";

if(promoCode == "JUMBO" && amount > 150){

}
```

1.4 If the conditions are met, calculate the discount as 30% of the amount



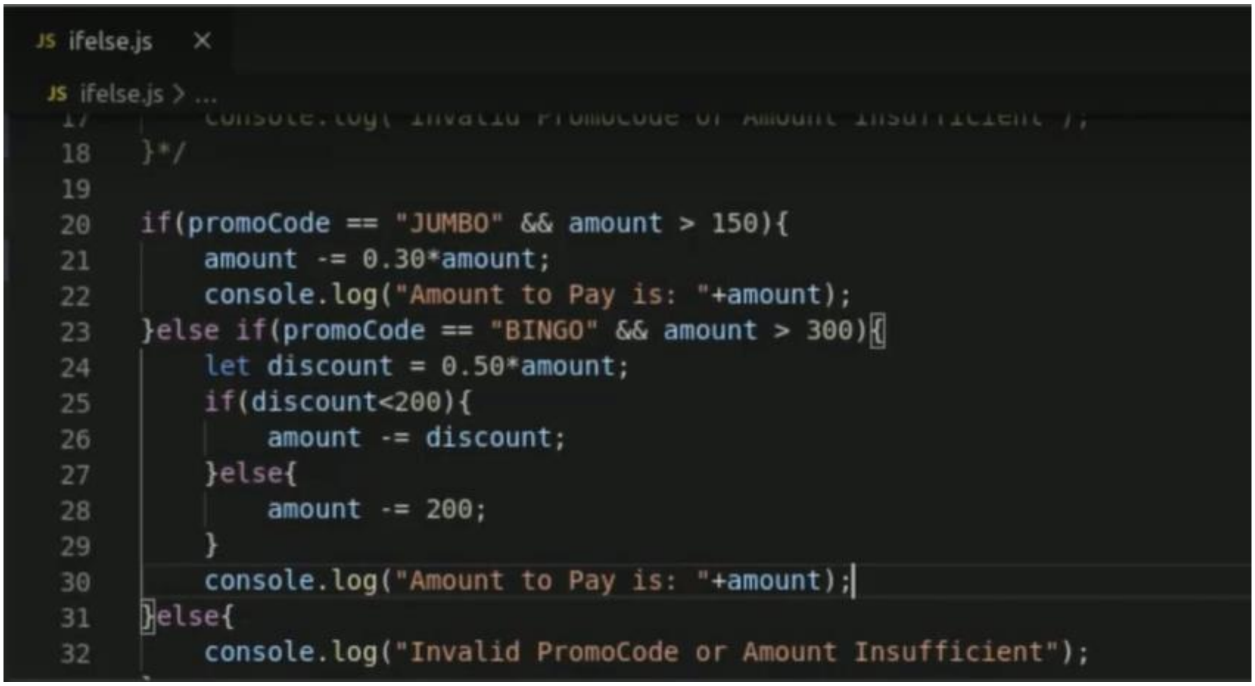
```
/*
    PromoCode1: JUMBO
    30%off on amount greater than 150

    PromoCode: BINGO
    50% off on amount greater than 300 but upto 200
*/

let amount = 1000;
let promoCode = "JUMBO";

if(promoCode == "JUMBO" && amount > 150){
    amount -= 0.30*amount;
}
```

1.5 Use an **else** statement to handle cases where the promo code is invalid, or the amount is insufficient



```

    PromoCode: BINGO
    50% off on amount greater than 300 but upto 200
*/

let amount = 1000;
let promoCode = "JUMBO";

if(promoCode == "JUMBO" && amount > 150){
    amount -= 0.30*amount;
    console.log("Amount to Pay is: "+amount);
}else{
    console.log("Invalid PromoCode or Amoutn Insufficient");
}
```

1.6 Use an **else if** statement to check if the promo code is equal to **BINGO** and the amount is greater than **300**

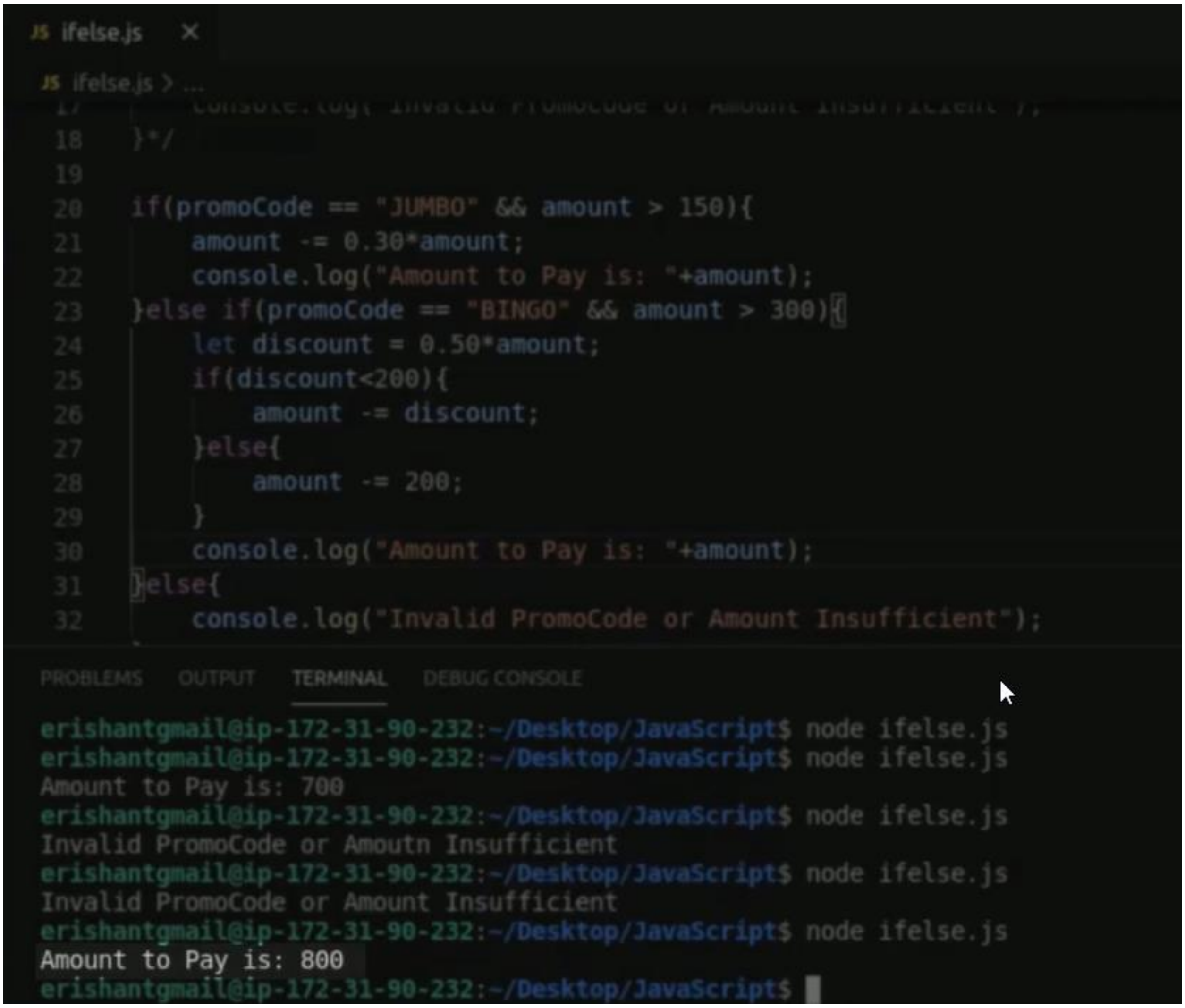


```
    console.log("Invalid PromoCode or Amount Insufficient");
}*/

if(promoCode == "JUMBO" && amount > 150){
    amount -= 0.30*amount;
    console.log("Amount to Pay is: "+amount);
}else if(promoCode == "BINGO" && amount > 300){
    let discount = 0.50*amount;
    if(discount<200){
        amount -= discount;
    }else{
        amount -= 200;
    }
    console.log("Amount to Pay is: "+amount);
}else{
    console.log("Invalid PromoCode or Amount Insufficient");
```

Note: Use **console.log()** to display the final amount to pay after applying the promo code and discount

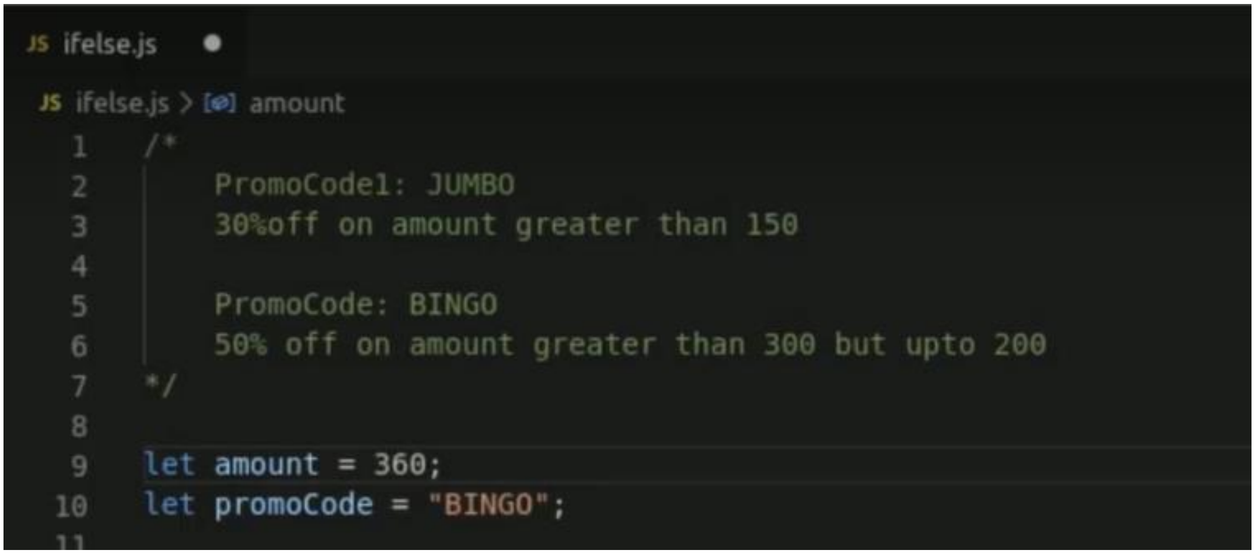
Step 2: Test the code with different promo codes and amounts

2.1 Modify the promo code and amount variables to test different scenarios



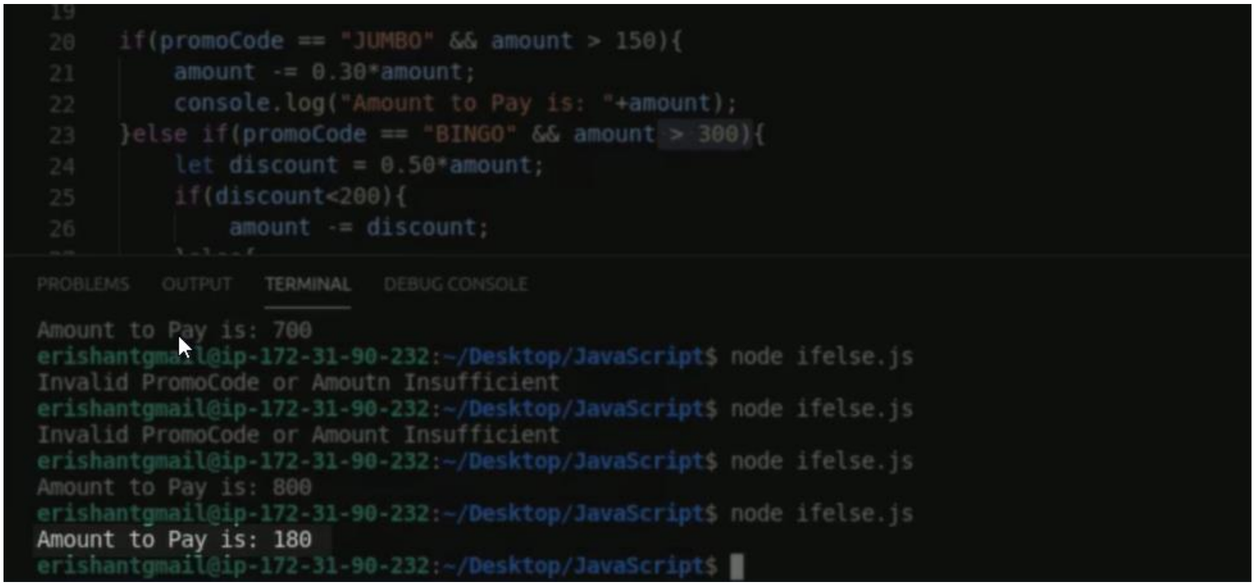
```javascript
    console.log("Invalid PromoCode or Amount Insufficient");
}*/

if(promoCode == "JUMBO" && amount > 150){
    amount -= 0.30*amount;
    console.log("Amount to Pay is: "+amount);
}else if(promoCode == "BINGO" && amount > 300){
    let discount = 0.50*amount;
    if(discount<200){
        amount -= discount;
    }else{
        amount -= 200;
    }
    console.log("Amount to Pay is: "+amount);
}else{
    console.log("Invalid PromoCode or Amount Insufficient");
```

```
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node ifelse.js
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node ifelse.js
Amount to Pay is: 700
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node ifelse.js
Invalid PromoCode or Amoutn Insufficient
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node ifelse.js
Invalid PromoCode or Amount Insufficient
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node ifelse.js
Amount to Pay is: 800
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```



```
/*
    PromoCode1: JUMBO
    30%off on amount greater than 150

    PromoCode: BINGO
    50% off on amount greater than 300 but upto 200
*/

let amount = 360;
let promoCode = "BINGO";
```

2.2 Run the program and observe the output for different promo codes and amounts



```
if(promoCode == "JUMBO" && amount > 150){
    amount -= 0.30*amount;
    console.log("Amount to Pay is: "+amount);
}else if(promoCode == "BINGO" && amount > 300){
    let discount = 0.50*amount;
    if(discount<200){
        amount -= discount;
```

```
Amount to Pay is: 700
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node ifelse.js
Invalid PromoCode or Amoutn Insufficient
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node ifelse.js
Invalid PromoCode or Amount Insufficient
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node ifelse.js
Amount to Pay is: 800
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node ifelse.js
Amount to Pay is: 180
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ 
```

By following the above steps, you can successfully implement if-else conditions to apply promo codes, calculate discounts based on specific conditions, and determine the final amount to be paid.