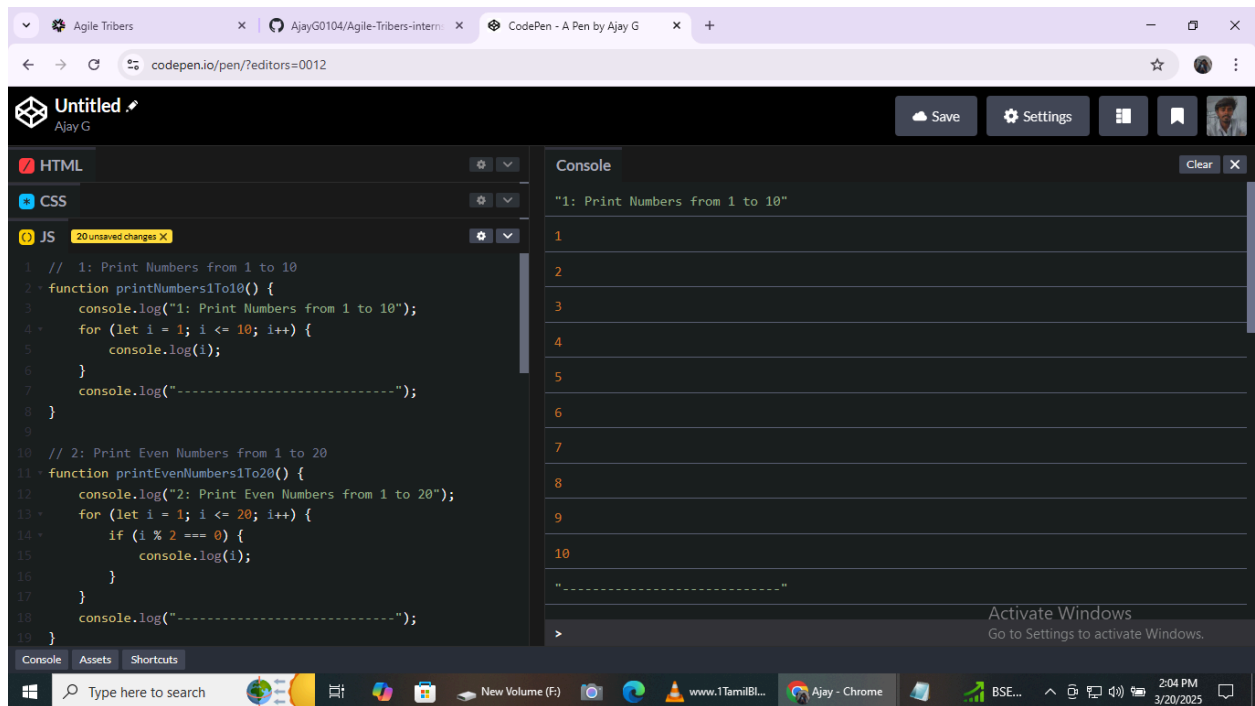


JavaScript Task 5 Output:

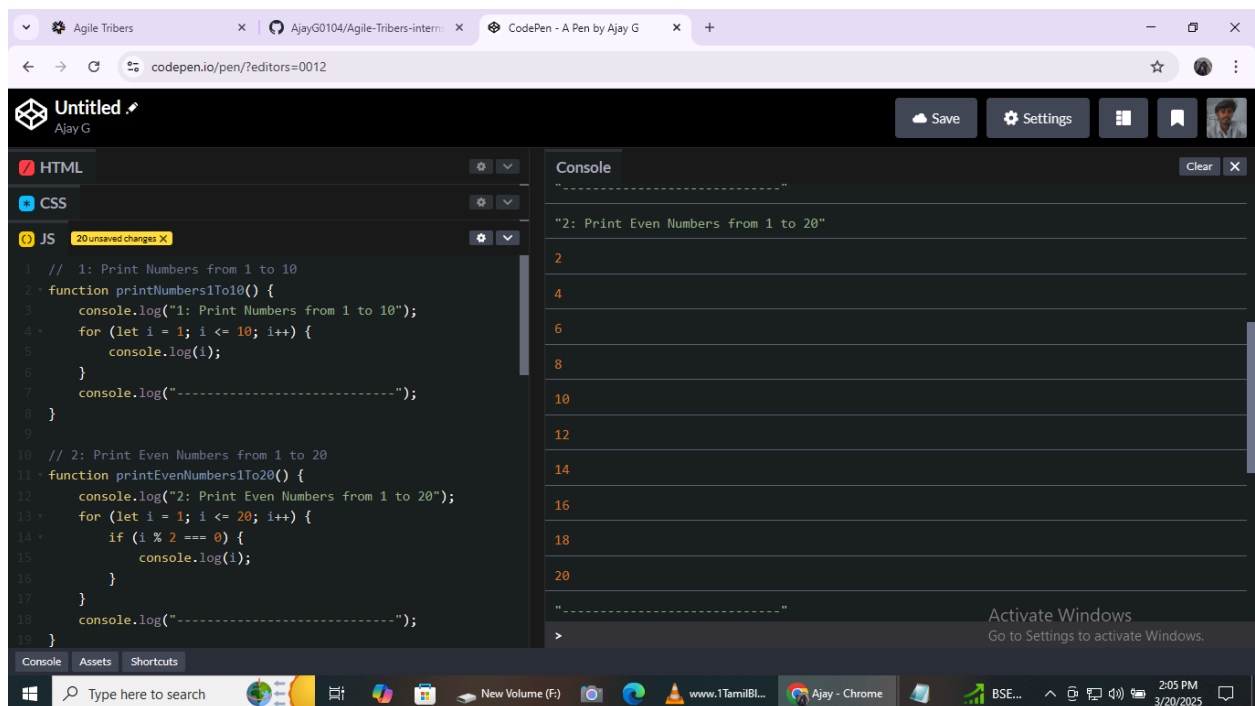


The screenshot shows the CodePen editor interface. The left pane displays the JavaScript code for the first two tasks. The right pane shows the console output for the first task, which prints numbers 1 through 10.

```
1 // 1: Print Numbers from 1 to 10
2 function printNumbers1To10() {
3   console.log("1: Print Numbers from 1 to 10");
4   for (let i = 1; i <= 10; i++) {
5     console.log(i);
6   }
7   console.log("-----");
8 }
9
10 // 2: Print Even Numbers from 1 to 20
11 function printEvenNumbers1To20() {
12   console.log("2: Print Even Numbers from 1 to 20");
13   for (let i = 1; i <= 20; i++) {
14     if (i % 2 === 0) {
15       console.log(i);
16     }
17   }
18   console.log("-----");
19 }
```

Console Output:

```
"1: Print Numbers from 1 to 10"
1
2
3
4
5
6
7
8
9
10
-----
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```



The screenshot shows the CodePen editor interface. The left pane displays the JavaScript code for the second task. The right pane shows the console output for the second task, which prints even numbers 2 through 20.

```
1 // 1: Print Numbers from 1 to 10
2 function printNumbers1To10() {
3   console.log("1: Print Numbers from 1 to 10");
4   for (let i = 1; i <= 10; i++) {
5     console.log(i);
6   }
7   console.log("-----");
8 }
9
10 // 2: Print Even Numbers from 1 to 20
11 function printEvenNumbers1To20() {
12   console.log("2: Print Even Numbers from 1 to 20");
13   for (let i = 1; i <= 20; i++) {
14     if (i % 2 === 0) {
15       console.log(i);
16     }
17   }
18   console.log("-----");
19 }
```

Console Output:

```
-----
"2: Print Even Numbers from 1 to 20"
2
4
6
8
10
12
14
16
18
20
-----
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```

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Untitled
Ajay G

HTML CSS JS 20 unsaved changes X

```
19 }
20
21 // 3: Print Odd Numbers from 1 to 20
22 function printOddNumbers1To20() {
23   console.log("3: Print Odd Numbers from 1 to 20");
24   for (let i = 1; i <= 20; i++) {
25     if (i % 2 !== 0) {
26       console.log(i);
27     }
28   }
29   console.log("-----");
30 }
31
32
33 // =====
34 // inputs and outputs
35 // =====
36
37 // Task 1
```

Console

"3: Print Odd Numbers from 1 to 20"

1
3
5
7
9
11
13
15
17
19

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Console Assets Shortcuts

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Ajay G

HTML CSS JS 100+ unsaved changes X

```
31 ,
32 // 4: Calculate the Factorial of a Number
33 function calculateFactorial(num) {
34   console.log("4: Calculate the Factorial of a Number");
35   let factorial = 1;
36   for (let i = 1; i <= num; i++) {
37     factorial *= i;
38   }
39   console.log(`Factorial of ${num} is ${factorial}`);
40   console.log("-----");
41 }
42
43 // 5: Sum of Numbers from 1 to 100
44 function sumNumbers1To100() {
45   console.log("5: Sum of Numbers from 1 to 100");
46   let sum = 0;
47   for (let i = 1; i <= 100; i++) {
48     sum += i;
49   }
50 }
```

Console

15
17
19

"4: Calculate the Factorial of a Number"

"Factorial of 5 is 120"

"5: Sum of Numbers from 1 to 100"

"Sum of numbers from 1 to 100 is 5050"

"6: Calculate the Average of Numbers in an Array"

"Average of the numbers is 30"

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Console Assets Shortcuts

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JavaScript Task 5

Ajay G

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```
53
54 // 6: Calculate the Average of Numbers in an Array
55 function calculateAverage(numbers) {
56   console.log("6: Calculate the Average of Numbers in an
   Array");
57   let sum = 0;
58   for (let i = 0; i < numbers.length; i++) {
59     sum += numbers[i];
60   }
61   let average = sum / numbers.length;
62   console.log(`Average of the numbers is ${average}`);
63   console.log("-----");
64 }
65
66 // 7: Draw Patterns Using Nested For Loops
67 function drawSquarePattern(size) {
68   console.log("7: Draw Patterns Using Nested For Loops");
69   for (let i = 0; i < size; i++) {
70     let row = '';
```

Console

Clear X

"5: Sum of Numbers from 1 to 100"

"Sum of numbers from 1 to 100 is 5050"

"-----"

"6: Calculate the Average of Numbers in an Array"

"Average of the numbers is 30"

"-----"

"7: Draw Patterns Using Nested For Loops"

"* * * * *

"* * * * *

"* * * * *

"* * * * *

"* * * * *

"-----"

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JavaScript Task 5

Ajay G

Save Settings

HTML CSS JS 100+ unsaved changes X

```
78
79 // 8: Print Numbers from 1 to 5
80 function printNumbers1To5() {
81   console.log("8: Print Numbers from 1 to 5");
82   for (let i = 1; i <= 5; i++) {
83     console.log(i);
84   }
85   console.log("-----");
86 }
87
88 // 9: Print the First 10 Natural Numbers
89 function printFirst10NaturalNumbers() {
90   console.log("9: Print the First 10 Natural Numbers");
91   for (let i = 1; i <= 10; i++) {
92     console.log(i);
93   }
94   console.log("-----");
95 }
96
```

Console

Clear X

"8: Print Numbers from 1 to 5"

1

2

3

4

5

"-----"

"9: Print the First 10 Natural Numbers"

1

2

3

4

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JavaScript Task 5

Ajay G

Save Settings

HTML CSS JS 100+ unsaved changes X

```
97 // 10: Check if the First and Last Number of a List Are the Same
98 function checkFirstAndLastNumber(numbers) {
99   console.log("10: Check if the First and Last Number of a List Are the Same");
100   let result = numbers[0] === numbers[numbers.length - 1];
101   console.log("Are the first and last numbers the same? ${result}");
102   console.log("-----");
103 }
104
105 // 11: Print Numbers Divisible by 5
106 function printNumbersDivisibleBy5(numbers) {
107   console.log("11: Print Numbers Divisible by 5");
108   for (let i = 0; i < numbers.length; i++) {
109     if (numbers[i] % 5 === 0) {
110       console.log(numbers[i]);
111     }
112   }
113   console.log("-----");
114 }
```

Console

10

"10: Check if the First and Last Number of a List Are the Same"

"Are the first and last numbers the same? true"

"11: Print Numbers Divisible by 5"

10

15

20

25

30

35

40

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JavaScript Task 5

Ajay G

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```
115
116 // 12: Check Whether a Character is a Vowel or Consonant
117 function checkVowelOrConsonant(char) {
118   console.log("12: Check Whether a Character is a Vowel or Consonant");
119   let vowels = ['a', 'e', 'i', 'o', 'u'];
120   if (vowels.includes(char.toLowerCase())) {
121     console.log(`${char} is a vowel.`);
122   } else {
123     console.log(`${char} is a consonant.`);
124   }
125   console.log("-----");
126 }
127
128 // 13: Count Occurrences of Even and Odd Numbers Between 10 and 55
129 function countEvenAndOddNumbers() {
130   console.log("13: Count Occurrences of Even and Odd Numbers Between 10 and 55");
131   let evenCount = 0;
132   let oddCount = 0;
```

Console

"12: Check Whether a Character is a Vowel or Consonant"

"a is a vowel."

"13: Count Occurrences of Even and Odd Numbers Between 10 and 55"

"Even numbers: 23"

"Odd numbers: 23"

"14: Print Numbers from 1 to 25, Excluding Multiples of 5"

1

2

3

4

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JavaScript Task 5

Ajay G

Save Settings

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```
144
145 // 14: Print Numbers from 1 to 25, Excluding Multiples of 5
146 function printNumbersExcludingMultiplesOf5() {
147   console.log("14: Print Numbers from 1 to 25, Excluding Multiples of 5");
148   for (let i = 1; i <= 25; i++) {
149     if (i % 5 !== 0) {
150       console.log(i);
151     }
152   }
153   console.log("-----");
154 }
155
156 // 15: Calculate the Factorial of Each Element in an Array
157 function calculateFactorialOfArrayElements(numbers) {
158   console.log("15: Calculate the Factorial of Each Element in an Array");
159   function factorial(n) {
160     let result = 1;
161     for (let i = 1; i <= n; i++) {
162       result *= i;
163     }
164   }
165   for (let i = 0; i < numbers.length; i++) {
166     console.log(`Factorial of ${numbers[i]} is ${factorial(numbers[i])}`);
167   }
168   console.log("-----");
169 }
```

Console

21

22

23

24

"15: Calculate the Factorial of Each Element in an Array"

"Factorial of 1 is 1"

"Factorial of 2 is 2"

"Factorial of 3 is 6"

"Factorial of 4 is 24"

"Factorial of 5 is 120"

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JavaScript Task 5

Ajay G

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HTML CSS JS 100+ unsaved changes X

```
158 calculateFactorialOfArrayElements([1, 2, 3, 4, 5]);
159
160 // 16
161 productOrSum(20, 25);
162
163 // 17
164 printGreatestOfTwoNumbers(10, 20);
165
166 // 18
167 printGreatestOfThreeNumbers(10, 20, 30);
168
169 // 19
170 separatePositiveAndNegativeNumbers([23, 4, -6, 23, -9, 21, 3, -45, -8]);
171
172 // =====
173 // Completed
174 // =====
```

Console

"Product of 20 and 25 is 500"

"17: Print the Greatest of Two Numbers"

"The greatest number is 20"

"18: Print the Greatest of Three Numbers"

"The greatest number is 30"

"19: Separate Positive and Negative Numbers from a List"

"Positive numbers:" // [object Array] (5)

[23,4,23,21,3]

"Negative numbers:" // [object Array] (4)

[-6,-9,-45,-8]

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