

FOR LOOPS ASSIGNMENT

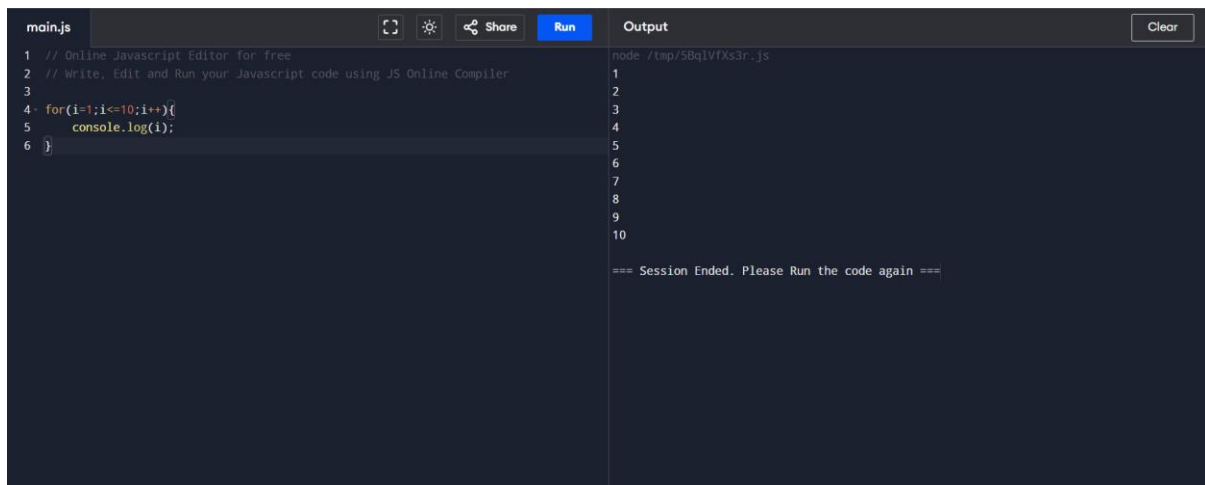
1) Print Numbers from 1 to 10

Instructions:

Use a for loop to print numbers from 1 to 10.

Display the numbers in the console.

Code:



The screenshot shows an online JavaScript editor with a dark theme. The editor has a top bar with icons for file management, settings, and a 'Share' button, followed by a blue 'Run' button. The code area on the left contains the following JavaScript code:

```
1 // Online Javascript Editor for free
2 // Write, Edit and Run your Javascript code using JS Online Compiler
3
4 for(i=1;i<=10;i++){
5     console.log(i);
6 }
```

The output area on the right shows the results of running the code:

```
node /tmp/5Bq1VFXs3r.js
1
2
3
4
5
6
7
8
9
10

=== Session Ended. Please Run the code again ===
```

2) Print Even Numbers from 1 to 20

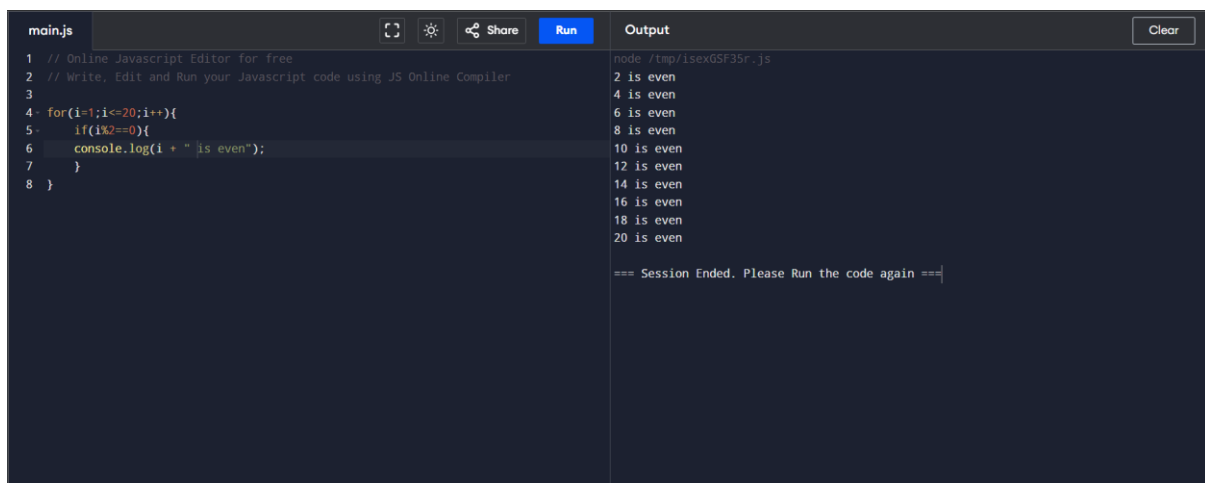
Scenario: Write JavaScript code that prints all even numbers from 1 to 20.

Instructions:

Use a for loop to iterate from 1 to 20.

Use an if statement to check if a number is even and print it.

Code:



The screenshot shows the same online JavaScript editor. The code area on the left contains the following JavaScript code:

```
1 // Online Javascript Editor for free
2 // Write, Edit and Run your Javascript code using JS Online Compiler
3
4 for(i=1;i<=20;i++){
5     if(i%2==0){
6         console.log(i + " is even");
7     }
8 }
```

The output area on the right shows the results of running the code:

```
node /tmp/isexGSF35r.js
2 is even
4 is even
6 is even
8 is even
10 is even
12 is even
14 is even
16 is even
18 is even
20 is even

=== Session Ended. Please Run the code again ===
```

3) Print Multiples of 5 up to 50

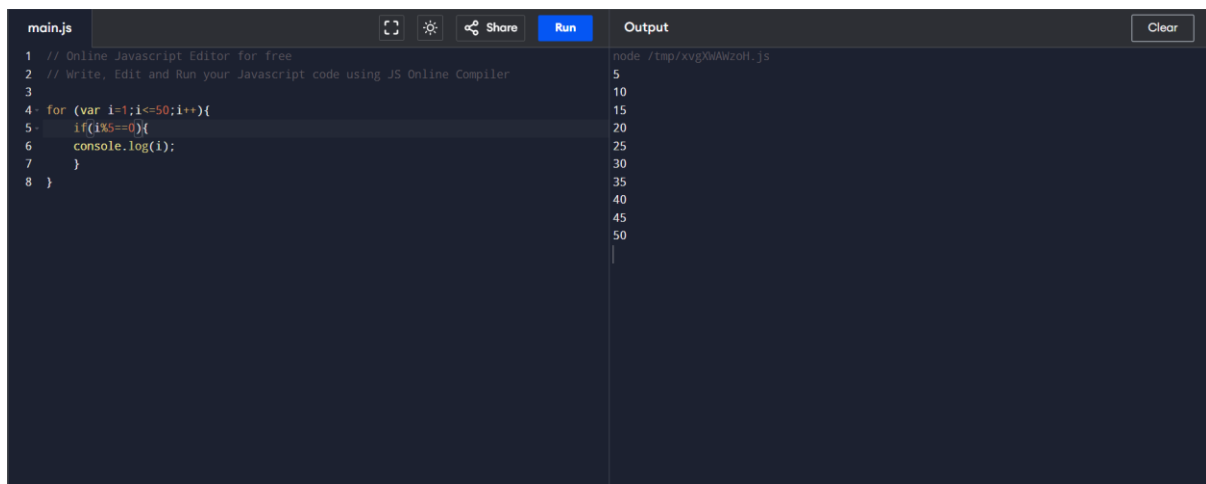
Scenario: Write JavaScript code that prints all multiples of 5 up to 50.

Instructions:

Use a for loop to iterate from 1 to 50.

Use an if statement to check if a number is a multiple of 5 and print it.

Code:



The screenshot shows an online JavaScript editor with a dark theme. The editor has a top bar with icons for file operations, settings, and a 'Run' button. The code in the editor is as follows:

```
1 // Online Javascript Editor for free
2 // Write, Edit and Run your Javascript code using JS Online Compiler
3
4 for (var i=1;i<=50;i++){
5     if(i%5==0){
6         console.log(i);
7     }
8 }
```

The output panel on the right shows the results of running the code, listing the multiples of 5 from 5 to 50:

```
node /tmp/xvg9wAkzoH.js
5
10
15
20
25
30
35
40
45
50
```

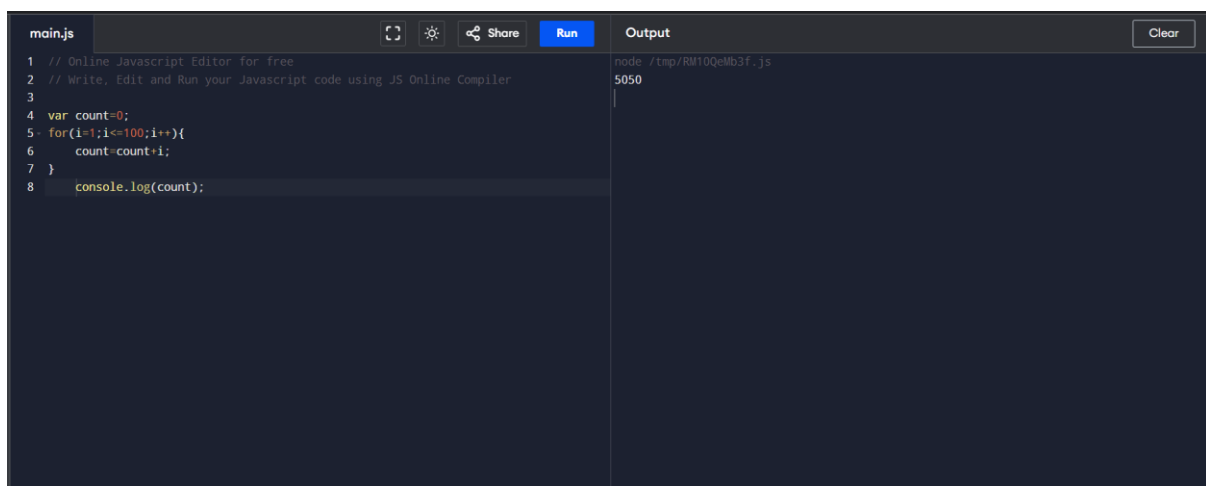
4) Sum of Numbers from 1 to 100

Scenario: Write JavaScript code that calculates the sum of numbers from 1 to 100.

Instructions:

Use a for loop to iterate from 1 to 100.

Add each number to a sum variable and print the total sum.



The screenshot shows an online JavaScript editor with a dark theme. The editor has a top bar with icons for file operations, settings, and a 'Run' button. The code in the editor is as follows:

```
1 // Online Javascript Editor for free
2 // Write, Edit and Run your Javascript code using JS Online Compiler
3
4 var count=0;
5 for(i=1;i<=100;i++){
6     count=count+i;
7 }
8 console.log(count);
```

The output panel on the right shows the result of running the code, which is the sum of numbers from 1 to 100:

```
node /tmp/RM10QeMb3f.js
5050
```

5) Create a JavaScript program that calculates the factorial of a given number using a for loop.

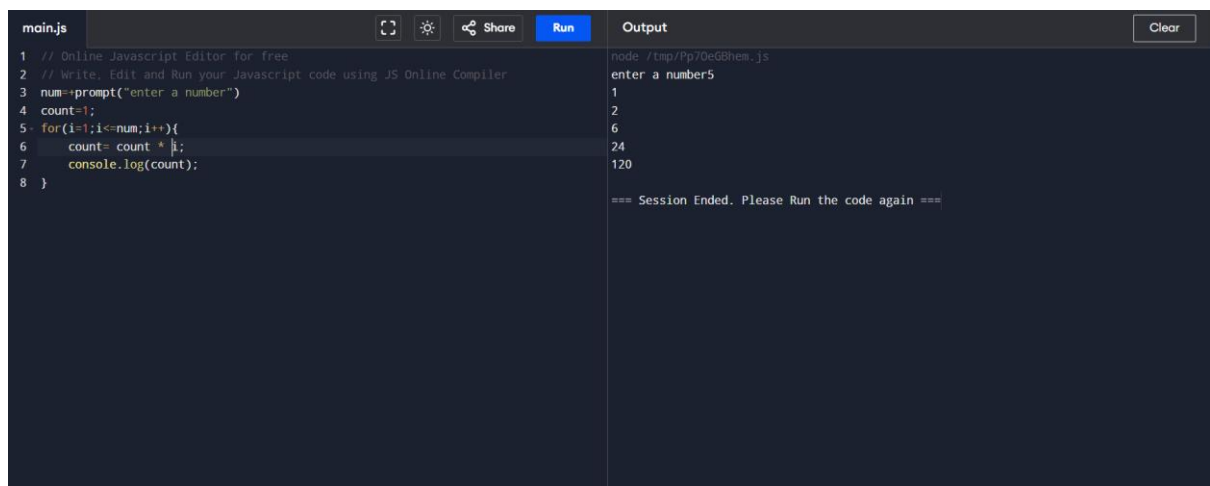
Instructions:

Use a for loop to multiplication the given

Take prompt from the user

hint: take count value as 1;

code:



The screenshot shows an online JavaScript editor with a dark theme. The editor has a top bar with icons for file management, settings, and a 'Run' button. The code area on the left contains the following JavaScript code:

```
1 // Online Javascript Editor for free
2 // Write, Edit and Run your Javascript code using JS Online Compiler
3 num=+prompt("enter a number")
4 count=1;
5 for(i=1;i<=num;i++){
6   count= count * i;
7   console.log(count);
8 }
```

The output area on the right shows the result of running the code with the input '5':

```
node /tmp/Pp70eG8heW.js
enter a number5
1
2
6
24
120

=== Session Ended. Please Run the code again ===
```

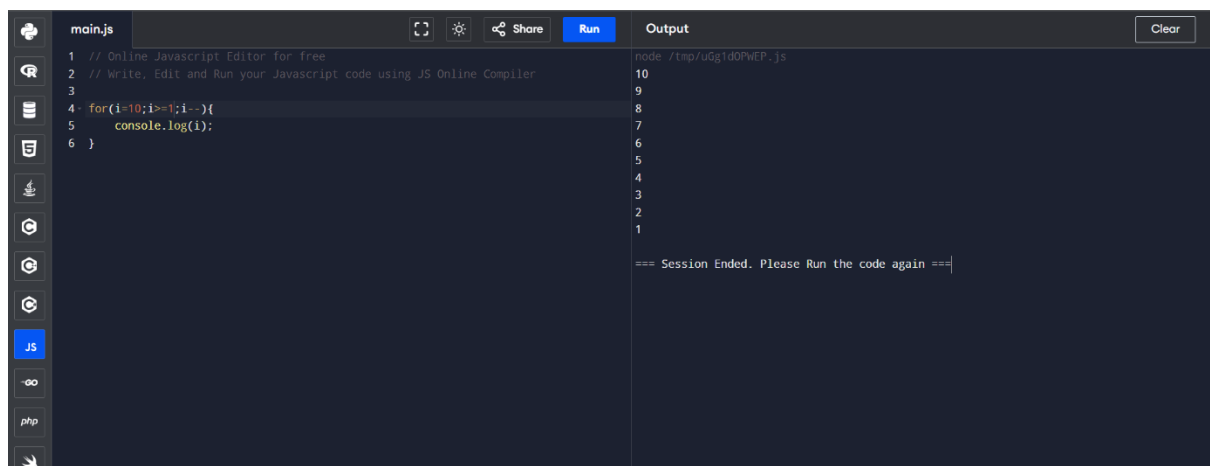
6) Print Numbers in Reverse Order

Scenario: Write JavaScript code that prints numbers from 10 to 1 in reverse order.

Instructions:

Use a for loop to count down from 10 to 1.

Display the numbers in the console.



The screenshot shows an online JavaScript editor with a dark theme. The editor has a top bar with icons for file management, settings, and a 'Run' button. The code area on the left contains the following JavaScript code:

```
1 // Online Javascript Editor for free
2 // Write, Edit and Run your Javascript code using JS Online Compiler
3
4 for(i=10;i>=1;i--){
5   console.log(i);
6 }
```

The output area on the right shows the result of running the code:

```
node /tmp/uGg1d0PwEP.js
10
9
8
7
6
5
4
3
2
1

=== Session Ended. Please Run the code again ===
```

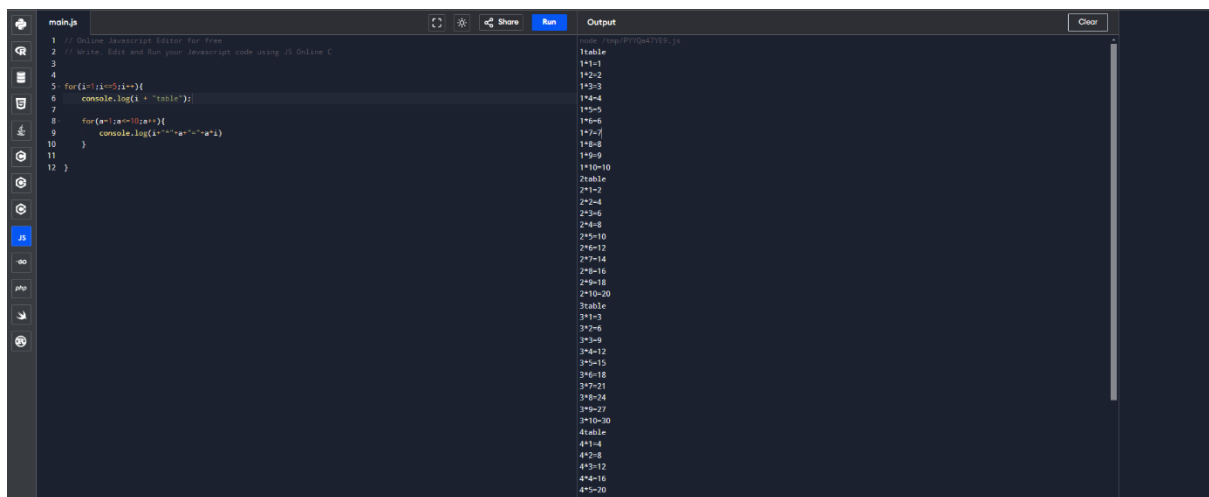
8) Write a JavaScript script that uses nested loops to print a multiplication table for numbers 1 through 5.

Instructions:

use for loop

use nested loop

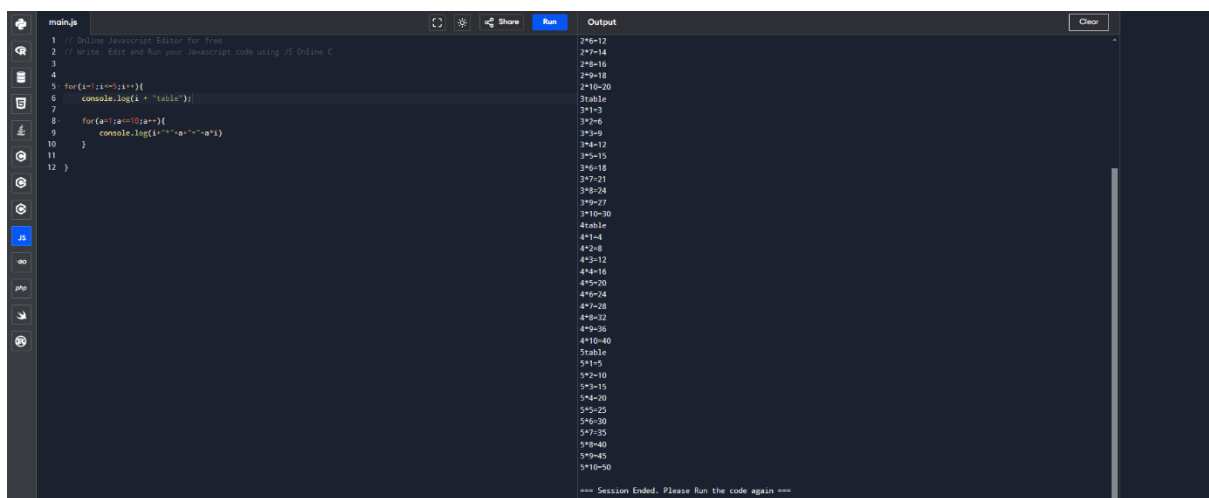
code:



```
1 // Online JavaScript Editor for free
2 // Write, Edit and Run your JavaScript code using JS Online C
3
4
5 for(i=1;i<=5;i++){
6   console.log(i + "table");
7   for(a=1;a<=5;a++){
8     console.log(i+"*"+a+"="+a*i)
9   }
10 }
11
12 }
```

Output

```
1table
1*1=1
1*2=2
1*3=3
1*4=4
1*5=5
1*6=6
1*7=7
1*8=8
1*9=9
1*10=10
2table
2*1=2
2*2=4
2*3=6
2*4=8
2*5=10
2*6=12
2*7=14
2*8=16
2*9=18
2*10=20
3table
3*1=3
3*2=6
3*3=9
3*4=12
3*5=15
3*6=18
3*7=21
3*8=24
3*9=27
3*10=30
4table
4*1=4
4*2=8
4*3=12
4*4=16
4*5=20
4*6=24
4*7=28
4*8=32
4*9=36
4*10=40
5table
5*1=5
5*2=10
5*3=15
5*4=20
5*5=25
5*6=30
5*7=35
5*8=40
5*9=45
5*10=50
```



```
1 // Online JavaScript Editor for free
2 // Write, Edit and Run your JavaScript code using JS Online C
3
4
5 for(i=1;i<=5;i++){
6   console.log(i + "table");
7   for(a=1;a<=5;a++){
8     console.log(i+"*"+a+"="+a*i)
9   }
10 }
11
12 }
```

Output

```
1table
1*1=1
1*2=2
1*3=3
1*4=4
1*5=5
1*6=6
1*7=7
1*8=8
1*9=9
1*10=10
2table
2*1=2
2*2=4
2*3=6
2*4=8
2*5=10
2*6=12
2*7=14
2*8=16
2*9=18
2*10=20
3table
3*1=3
3*2=6
3*3=9
3*4=12
3*5=15
3*6=18
3*7=21
3*8=24
3*9=27
3*10=30
4table
4*1=4
4*2=8
4*3=12
4*4=16
4*5=20
4*6=24
4*7=28
4*8=32
4*9=36
4*10=40
5table
5*1=5
5*2=10
5*3=15
5*4=20
5*5=25
5*6=30
5*7=35
5*8=40
5*9=45
5*10=50
```

=== Session Ended. Please Run the code again ===