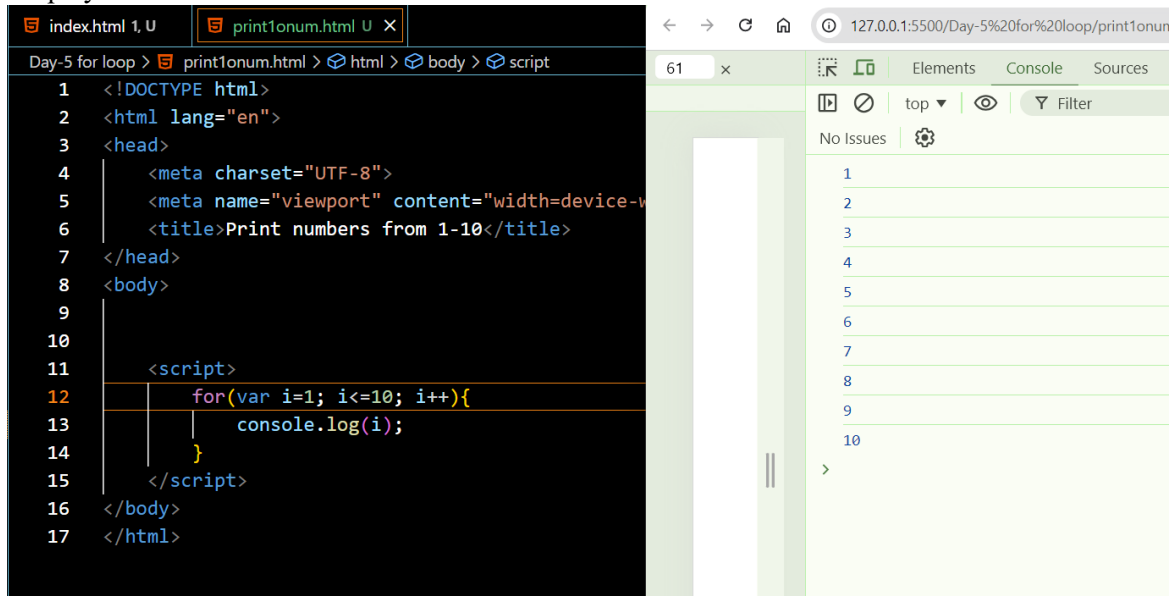Tasks:

Task 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.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-w
    <title>Print numbers from 1-10</title>
</head>
<body>


    <script>
        for(var i=1; i<=10; i++){
            console.log(i);
        }
    </script>
</body>
</html>
```
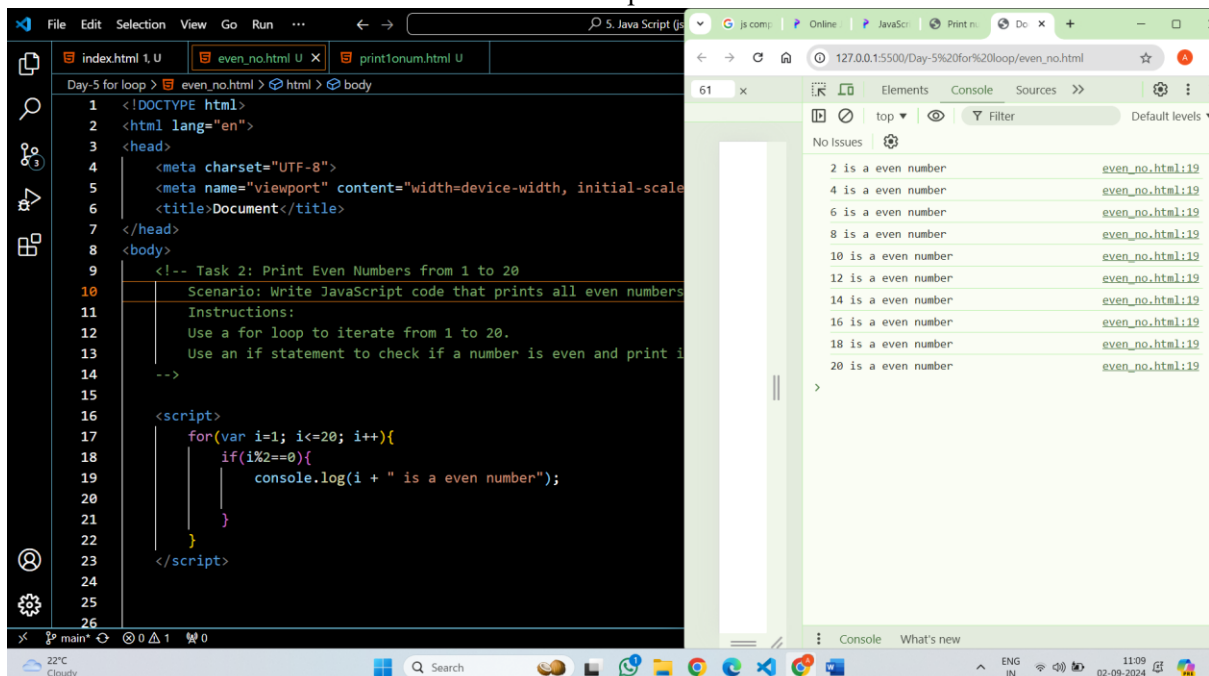
Task 2: Print Even Numbers from 1 to 20

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.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale
    <title>Document</title>
</head>
<body>
    <!-- Task 2: Print Even Numbers from 1 to 20
    Scenario: Write JavaScript code that prints all even numbers
    Instructions:
    Use a for loop to iterate from 1 to 20.
    Use an if statement to check if a number is even and print i
    -->

    <script>
        for(var i=1; i<=20; i++){
            if(i%2==0){
                console.log(i + " is a even number");
            }
        }
    </script>
```

Task 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.

index.html 1, U   even_no.html U   multiples_of_5.html U ×   print1onum.html U

Day-5 for loop > 🖹 multiples_of_5.html > ❖ html > ❖ body

```
2    <html lang="en">
3    <head>
7    </head>
8    <body>
9
10       <!--
11           Task 3: Print Multiples of 5 up to 50
12           Scenario: Write JavaScript code that prints all multiples of
13           Instructions:
14           Use a for loop to iterate from 1 to 50.
15           Use an if statement to check if a number is a multiple of 5
16       -->
17
18
19       <script>
20           for(var i=1; i<=50; i++){
21               if(i%5==0){
22                   console.log(i + " is the multiple of 5");
23
24               }
25           }
26       </script>
27
28   </body>
29   </html>
```

Console output:
```
5 is the multiple of 5          multiples_of_5.html:22
10 is the multiple of 5         multiples_of_5.html:22
15 is the multiple of 5         multiples_of_5.html:22
20 is the multiple of 5         multiples_of_5.html:22
25 is the multiple of 5         multiples_of_5.html:22
30 is the multiple of 5         multiples_of_5.html:22
35 is the multiple of 5         multiples_of_5.html:22
40 is the multiple of 5         multiples_of_5.html:22
45 is the multiple of 5         multiples_of_5.html:22
50 is the multiple of 5         multiples_of_5.html:22
```

Task 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.

index.html 1, U   SumOfNum_1to100.html U ×   factorial.html U

Day-5 for loop > 🖹 SumOfNum_1to100.html > ❖ html > ❖ body

```
2    <html lang="en">
7    </head>
8    <body>
9
10       <!--
11           Task 4: Sum of Numbers from 1 to 100
12           Scenario: Write JavaScript code that calculates the s
13           Instructions:
14           Use a for loop to iterate from 1 to 100.
15           Add each number to a sum variable and print the total
16       -->
17
18
19       <script>
20           count=0;
21           for(var i=1; i<=100; i++){
22               count=count+i;
23           }
24           console.log(count + " is the sum of nums from 1 to 10
25       </script>
26
```

Console output:
```
5050 is the sum of nums from 1 to 100
```
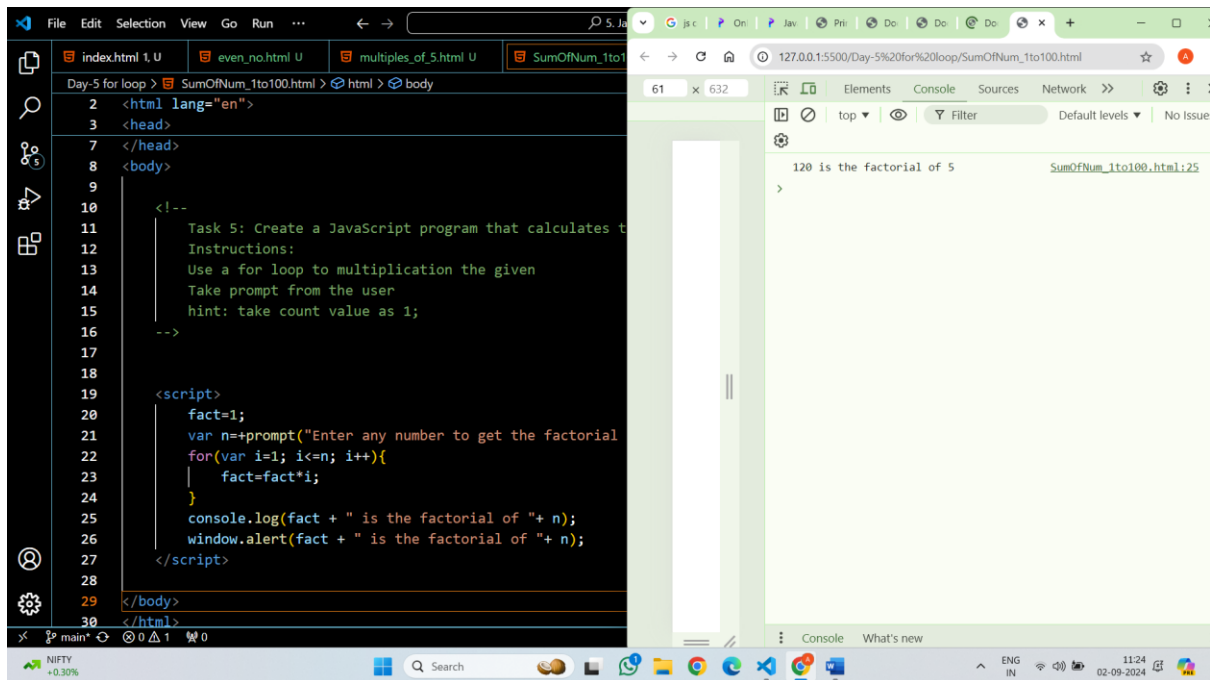
Task 5: Create a JavaScript program that calculates the factorial of a given number using a for loop.

Instructions:

Use a for loop to multiplication the given

Take prompt from the user
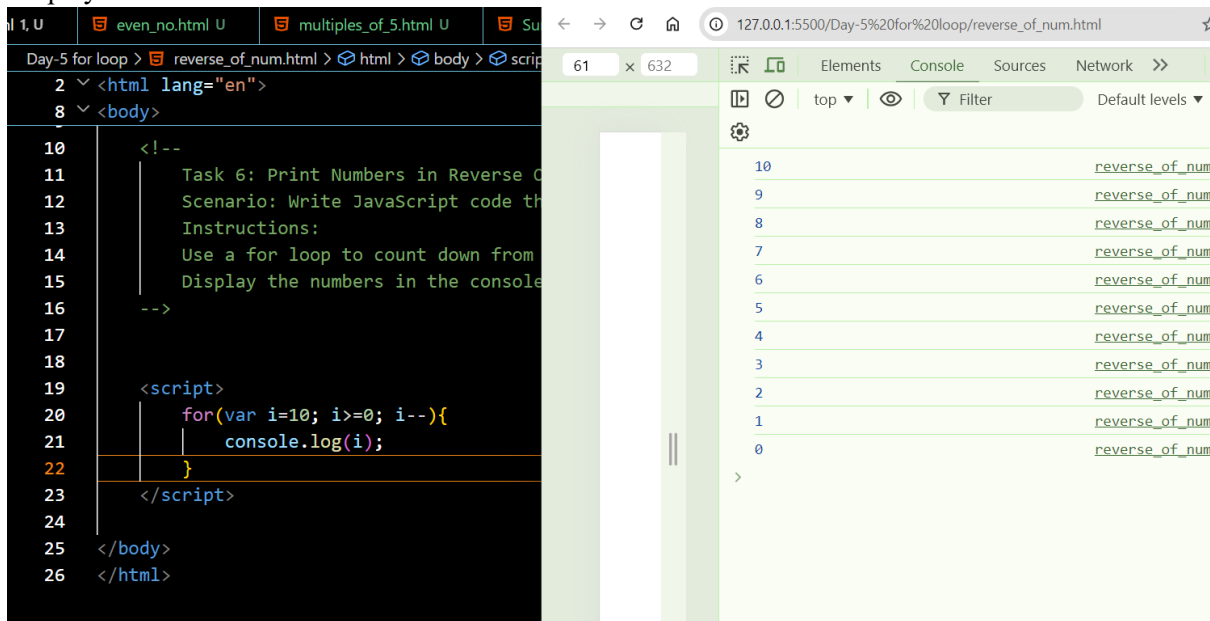
hint: take count value as 1;

Task 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.

(optional)

Task 7: Print the Alphabet

Scenario: Write JavaScript code that prints the alphabet from A to Z.

Instructions:

Use a for loop to iterate through the ASCII values of the letters A to Z.

Convert the ASCII values to characters and print them.

Hint - console.log(String.fromCharCode(i));

ASCII TABLE

Decimal	Hex	Char	Decimal	Hex	Char	Decimal	Hex	Char	Decimal	Hex	Char
0	0	[NULL]	32	20	[SPACE]	64	40	@	96	60	`
1	1	[START OF HEADING]	33	21	!	65	41	A	97	61	a
2	2	[START OF TEXT]	34	22	"	66	42	B	98	62	b
3	3	[END OF TEXT]	35	23	#	67	43	C	99	63	c
4	4	[END OF TRANSMISSION]	36	24	$	68	44	D	100	64	d
5	5	[ENQUIRY]	37	25	%	69	45	E	101	65	e
6	6	[ACKNOWLEDGE]	38	26	&	70	46	F	102	66	f
7	7	[BELL]	39	27	'	71	47	G	103	67	g
8	8	[BACKSPACE]	40	28	(	72	48	H	104	68	h
9	9	[HORIZONTAL TAB]	41	29	)	73	49	I	105	69	i
10	A	[LINE FEED]	42	2A	*	74	4A	J	106	6A	j
11	B	[VERTICAL TAB]	43	2B	+	75	4B	K	107	6B	k
12	C	[FORM FEED]	44	2C	,	76	4C	L	108	6C	l
13	D	[CARRIAGE RETURN]	45	2D	-	77	4D	M	109	6D	m
14	E	[SHIFT OUT]	46	2E	.	78	4E	N	110	6E	n
15	F	[SHIFT IN]	47	2F	/	79	4F	O	111	6F	o
16	10	[DATA LINK ESCAPE]	48	30	0	80	50	P	112	70	p
17	11	[DEVICE CONTROL 1]	49	31	1	81	51	Q	113	71	q
18	12	[DEVICE CONTROL 2]	50	32	2	82	52	R	114	72	r
19	13	[DEVICE CONTROL 3]	51	33	3	83	53	S	115	73	s
20	14	[DEVICE CONTROL 4]	52	34	4	84	54	T	116	74	t
21	15	[NEGATIVE ACKNOWLEDGE]	53	35	5	85	55	U	117	75	u
22	16	[SYNCHRONOUS IDLE]	54	36	6	86	56	V	118	76	v
23	17	[ENG OF TRANS. BLOCK]	55	37	7	87	57	W	119	77	w
24	18	[CANCEL]	56	38	8	88	58	X	120	78	x
25	19	[END OF MEDIUM]	57	39	9	89	59	Y	121	79	y
26	1A	[SUBSTITUTE]	58	3A	:	90	5A	Z	122	7A	z
27	1B	[ESCAPE]	59	3B	;	91	5B	[	123	7B	{
28	1C	[FILE SEPARATOR]	60	3C	<	92	5C	\	124	7C		
29	1D	[GROUP SEPARATOR]	61	3D	=	93	5D	]	125	7D	}
30	1E	[RECORD SEPARATOR]	62	3E	>	94	5E	^	126	7E	~
31	1F	[UNIT SEPARATOR]	63	3F	?	95	5F	_	127	7F	[DEL]


```html
<html lang="en">
<head>
</head>
<body>
    <!--
    Task 7: Print the Alphabet
    Scenario: Write JavaScript code that prints the alphabet
    Instructions:
    Use a for loop to iterate through the ASCII values of the
    Convert the ASCII values to characters and print them.
    Hint - console.log(String.fromCharCode(i));
    -->


    <script>
        for(var i=65; i<=90;i++)
        console.log(String.fromCharCode(i));
    </script>

</body>
</html>
```

Task 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

```
2    <html lang="en">
8    <body>
12       Instructions:
13       use for loop
14       use nested loop
15       -->
16
17
18       <script>
19           for(var i=1; i<=5; i++){
20               console.log("Table "+ i);
21               for(var j=1; j<=10; j++){
22
23                   var x=i*j;
24                   console.log(i+ " * "+j+'='+x);
25
26
27               }
28           }
29       </script>
30
31   </body>
32   </html>
```

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```
Table 1
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
Table 2
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    <html lang="en">
8    <body>
12       Instructions:
13       use for loop
14       use nested loop
15       -->
16
17
18       <script>
19           for(var i=1; i<=5; i++){
20               console.log("Table "+ i);
21               for(var j=1; j<=10; j++){
22
23                   var x=i*j;
24                   console.log(i+ " * "+j+'='+x);
25
26
27               }
28           }
29       </script>
30
31   </body>
32   </html>
```

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```
2 * 10=20                      multipl
Table 3                        multipl
3 * 1=3                        multipl
3 * 2=6                        multipl
3 * 3=9                        multipl
3 * 4=12                       multipl
3 * 5=15                       multipl
3 * 6=18                       multipl
3 * 7=21                       multipl
3 * 8=24                       multipl
3 * 9=27                       multipl
3 * 10=30                      multipl
Table 4                        multipl
4 * 1=4                        multipl
4 * 2=8                        multipl
4 * 3=12                       multipl
4 * 4=16                       multipl
4 * 5=20                       multipl
4 * 6=24                       multipl
4 * 7=28                       multipl
4 * 8=32                       multipl
4 * 9=36                       multipl
4 * 10=40                      multipl
```

```
 2   <html lang="en">
 8   <body>
12      Instructions:
13      use for loop
14      use nested loop
15      -->
16
17
18      <script>
19          for(var i=1; i<=5; i++){
20              console.log("Table "+ i);
21              for(var j=1; j<=10; j++){
22
23                  var x=i*j;
24                  console.log(i+ " * "+j+'='+x);
25
26
27              }
28          }
29      </script>
30
31  </body>
32  </html>
```

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61 x 645

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```
3 * 9=27
3 * 10=30
Table 4
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
Table 5
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
```