1. Multiplication Table:

- Write a function that prints a 10×10 multiplication table. The table should display the product of numbers from 1 to 10 in a grid format.

```
for(var i=1;i<=10;i++)
{
    for(var j=1;j<=10;j++)</pre>
        console.log(i+"*"+j+"="+(i*j));
    }
    console.log("\n");
}
o/p:
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
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
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
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

5*1=5

5*2=10

5*3=15

5*4=20

5*5=25

5.2-2.

5*6=30

5*7=35

5*8=40

5*9=45

5*10=50

6*1=6

6*2=12

6*3=18

6*4=24

6*5=30

6*6=36

6*7=42

6*8=48

6*9=54

6*10=60

7*1=7

7*2=14

7*3=21

7*4=28

7*5=35

7*6=42

7*7=49

7*8=56

7*9=63

7*10=70

8*1=8

8*2=16

8*3=24

8*4=32

8*5=40

8*6=48

8*7=56

8*8=64

8*9=72

8*10=80

9*1=9

9*2=18

9*3=27

9*4=36

9*5=45

9*6=54

9*7=63

9*8=72

9*9=81

9*10=90

10*1=10 10*2=20

10*3=30

10*4=40

```
10*5=50
10*6=60
10*7=70
10*8=80
10*9=90
10*10=100
```

2. Prime Numbers in a Range:

- Write a function that finds and prints all prime numbers between 1 and 100. A prime number is only divisible by 1 and itself.

```
var arr=[]
for(i=1;i<=100;i++)
{
    count=0;
    for (j=i;j>0;j--)
    {
        if(i%j == 0)
        {
            count=count+1;
        }
        if (count==2)
            {
                arr.push(i);
            }
        console.log(arr);
```

3. FizzBuzz:

- Write a function that prints the numbers from 1 to 100. For multiples of three, print "Fizz" instead of the number. For multiples of five, print "Buzz". For numbers which are multiples of both three and five, print "FizzBuzz".

```
a=[]
for(let i=1;i<=100;i++)
{
    if((i%3 == 0) && (i%5 ==0))
    {
        a.push("FizzBuzz");
    }
    else if(i%3 == 0)
    {
        a.push("Fizz");
    }
    else if(i%5 == 0)
    {
        a.push("Buzz");
    }
    else</pre>
```

```
{
         a.push(i);
    }
console.log(a);
o/p:
1,
                                           'Buzz',
           2,
                    'Fizz',
                                  4,
                                                    'Fizz',
                    'Fizz',
                                  'Buzz',
                                                    'Fizz',
  7,
           8,
                                          11,
                                 16,
                                                    'Fizz',
  13,
           14,
                    'FizzBuzz',
                                           17,
                                                    'Fizz',
           'Buzz',
                    'Fizz',
                                  22,
                                           23,
  19,
                    'Fizz',
  'Buzz', 26,
                                  28,
                                           29,
                                                    'FizzBuzz',
                    'Fizz',
                                                    'Fizz',
                                  34,
                                           'Buzz',
  31,
           32,
                                  'Buzz',
                    'Fizz',
                                                    'Fizz',
  37,
           38,
                                          41,
                                                    'Fizz',
                                 46,
                    'FizzBuzz',
  43,
           44,
                                           47,
                    'Fizz',
  49,
           'Buzz',
                                  52,
                                           53,
                                                    'Fizz',
  'Buzz', 56,
                    'Fizz',
                                  58,
                                           59,
                                                    'FizzBuzz',
                    'Fizz',
                                           'Buzz',
                                                    'Fizz',
           62,
                                 64,
  61,
           68,
                    'Fizz',
                                  'Buzz',
                                          71,
                                                    'Fizz',
  67,
                                                    'Fizz',
                    'FizzBuzz', 76,
  73,
           74,
                                          77,
  79,
           'Buzz',
                    'Fizz',
                                 82,
                                          83,
                                                    'Fizz',
                    'Fizz',
                                                    'FizzBuzz',
  'Buzz', 86,
                                 88,
                                          89,
                    'Fizz',
  91,
                                 94,
                                           'Buzz', 'Fizz',
           92,
  97,
                    'Fizz',
                                  'Buzz'
           98,
]
4.
5. Pattern Printing:
- Write a function that prints the following pattern for a given number of rows:
ans:
n=5
var a=function(n)
for(var i=0;i<n;i++)</pre>
  console.log("*");
}
}
console.log(a(n));
```

```
o/p:
*
*
*
*
*
6.
7.
8.
9.
10. (still trying)
```