Assignment-1

Language - Javascript

1. To draw this pattern.

```
1
12
123
1234
12345
```

```javascript
for(var i=1;i<=5;i++){
    for( var j=1 ; j<=i ; j++){
        document.write(j);
    }
    document.write("</br>");
}
```

2.

```
1
2 3
4 5 6
7 8 9 10
```

```javascript
var count  = 0;
for(var i=1;i<=4;i++){
    for( var j=1 ; j<=i ; j++){
        count=count+1;
        document.write(count);
    }
    document.write("</br>");
}
```
3.write the logic for number of digits in a number

```javascript
        function digitCount(n) {
            var count = 0;
            if (n >= 1)
             ++count;
            while (n / 10 >= 1) {
                n /= 10;
                ++count;
            }
            return count;
        }document.write(digitCount(123));
```

4. write logic to reverse a given number

```javascript
      function reverseNumber(numm) {
            numm = numm + "";
            return numm.split("").reverse().join('');
        }
        document.write(reverseNumber(512));
```

5 . write a logic to check if a number is palindrome or not

```javascript
{
    var number = Number(prompt("enter the number"));
            var rem, temp, final = 0;
            temp = number;
            while(number>0)
            {
                    rem = number%10;
```

```
                    number = parseInt(number/10);
                    final = final*10+rem;
            }
            if(final==temp)
            {
                    document.write("The inputed number is Palindrome");
            }
            else
            {
                    document.write("The inputed number is not palindrome");
            }
       }
```

6. write a logic of power function

```
       function PowerOfNumber(b, e) {
        var i, pow = 1;
        for (i = 0; i < e; i++) {
            pow = pow * b;
        }
        return pow;
    }document.write(PowerOfNumber(2,3));
```

7. write a logic to find the factorial of a number

```
   var i, no, fact;
    fact=1;
    no=Number(prompt("enter the number"));
    for(i=1; i<=no; i++)
    {
     fact= fact*i;
    }
    document.write(fact);
```