modifiers

```
- g(global)- i(case insensitive)- m(multiline match)
```

function

```
1.exec() - return the result along with its info if result
2.test() - return true if result is true
3.match() - return array of result or null
4.search() - return index of first match
5.replace() - replace the given word with where regexp match
```

object

```
.input
.index
.source
```

```
let reg1 = /hi/g;
let reg2 = /riya/i;
console.log(reg1.source);
// show the regular expression literal - hi
let s = " my name hi is hi Riya good to see ya";
let a = " riya is good girl riya is best happy girl"
//console.log(a);
//console.log(s);
result1 = reg1.exec(s); // show the string
//console.log(result1);
let result2 = reg2.test(s);
//console.log(result2);
let result3 = s.match(reg1)
//console.log(result3); // ['hi','hi']
let result4 = s.search(reg2);
//console.log(result4);
let result5 = s.replace(reg1, "BISHT");
```

```
console.log(result5);
```

```
let str1 = "Twtttttinkle 23 twinkle . 2 little 23star dog fish dish this is
dish "
//console.log(str1);
let rex1 = /dog|cat|fish/
let result1 = rex1.test(str1)
//console.log(result1);
let rex2 = /twinkle/ig //case insensitive and global
let result2 = str1.match(rex2)
//console.log(result2);
/* extract match */
// wildcard period
//1. print words having one letter before is "dis , fis , his"
let rex3 = /.is/q
let result3 = str1.match(rex3)
//console.log(result3);
//2.print words , with one letter after is
let rex4= /is./g
let result4 = str1.match(rex4)
//console.log(result4);
// single character with multiple Possibilities
let rex5 = /w[aeiou]n/g
/*return all 3 letter starting with w and ending with n
,2rd letter any one among a,e,i,o,u */
let result5 = str1.match(rex5)
//console.log(result5);
// match letters of alphabet
// letter can be anything between [a-z]
let rex6 = /[a-z]/ig
let result6 = str1.match(rex6)
//console.log(result6);
//match number and letter of alphabet
let rex7 = /[a-z0-9]/ig;
let result7 = str1.match(rex7)
///console.log(result7);
//don;t match if no or vowels
let rex8 = /[^0-9aeiou]/g
let result8= str1.match(rex8)
///console.log(result8);
//match character that occour one or more times [t,ttt,tttt]
let rex9 = /t + /gi
```

```
let result9= str1.match(rex9)
//console.log(result9);
//match character that occur zero or more times
// [s-z]t* - any letter between "s-z" before t , t can occur 0 or more
times
let rex10 = /[s-z]t*/gi
let result10= str1.match(rex10)
//console.log(result10)
//find character with lazy matching
let str2 = "<h1>Spring_**is coming at 7:00</h1>"
console.log(str2);
let re1 = /<.*>/
let re2 = /<.*?>/
//console.log(str2.match(re1)); //"<h1>Spring is coming</h1>"
//console.log(str2.match(re2));//"<h1>" - lazy match
// beginning of the string "^"
let re3 = /^tw/i
//console.log(str1.match(re3));
//match ending string patterns "$"
let re4 = /dish $/
console.log(str1.match(re4));
// match all letters and numbers
\w = [a-zA-Z0-9_]
\W = every thing which is not letter, digit, underscore
\d = match digit
\D = match all non number
\s = whitespace character
let re5 = /\w/g
console.log(str2.match(re5));
let re6 = /\W/g
console.log(str2.match(re6));
let re7 = /\d/g
console.log(str2.match(re7));
let re8 = /\D/g
console.log(str2.match(re8));
```

```
/*
\w = [a-zA-Z0-9_]
\W = every thing which is not letter, digit, underscore
\d = match digit
```

```
\D = match all non number
 \s = whitespace character
 \S = non whitesapce
 */
 r1= /\w+@gmail.com/
 str = "riya152@gmail.com"
 console.log(str.match(r1));
 //{min match , max match}- min 2 match and after , max match
 1) If there are number, they must be at the end.
 2) Letters can be lowercase and uppercase
 3) At least two characters long. Two-letter names can't have numbers
  */
 let r2 = /^[a-zA-Z]{2,}\d*$/i
 let username = "a1523"
 console.log(username.match(r2));
 let str2 = "ohhhhh no"
 let r3 = /oh\{2,\} no/
 console.log(str2.match(r3));
 // specify only the lower number of matches
 str3 = "hxxxxzzzz"
 let r4 = /x\{2,\}/
 //['xxxx']
 // match string "favorite" and "favourite"
 str4 = "favorite"
 let r5= /favou?rite/ // may or may not have a "u"
 console.log(str4.match(r5));
 // look ahead
 1- positive look ahead (?=<expression>)
 2- negative look ahead (?!<expression>)
 let quit = "qu quick qwak"
 re6 = /q(?=u)/g
 re7 = /q(?!u)/g
 console.log(quit.match(re6)); // return q not u check at - "qu , quick"
 console.log(quit.match(re7)); // return q not u "qwak"
 /*
 passwords greater than 5 character long
 have 2 consecutive digit
 re8 = /(?=\w{5})(?=\D^*\d{2})/
```

```
Reuse pattern using capture group
1 - any string of letter with space after string
\1 -
*/
s1 = "riya riya"
r6 = /(\w+)\s\1/
console.log(s1.match(r6)); // ["riya riya " , "riya"]
/*
-full expression
- what ever in the capture group
- "42 42 42 42 78732 83883"
- only 3 similar number separated by space
* /
s2 = "42 42 42"
console.log(s2);
r7 = /^(d+) s^1 s^g
console.log(s2.match(r7));
/*
- replace code comp with camp code
console.log("code camp");
"code camp".replace(/(\w+)\s(\w+)/, '$1 $2')
/*
   remove whitespace at the beginning and end
   " Hello, World! ";
* /
let hello = " Hello, world! "
console.log(hello);
let regx = /^s+|s+$/g
console.log(hello.replace(regx,""));
console.log(hello);
```