```
1. Create a function that returns true if a string contains any spaces.
** Examples
hasSpaces("hello") → false
hasSpaces("hello, world") → true
hasSpaces(" ") → true
hasSpaces("") → false
hasSpaces(",./!@#") → false
function Space (c){
  return /\s/i.test(c)
}
console.log(Space("hello simplon"));
2. Create a function that takes a string and returns the number (count) of vowels contained
within it.
** Examples
countVowels("Celebration") → 5
countVowels("Palm") → 1
countVowels("Prediction") → 4
function vowels(str){
let pattern =/[aeiouy]/gi
let found = str.match(pattern);
if(found== null) return 0;
else
return found.length;
}
console.log(vowels("simplon"));
```

3. Create a function that takes a string and character as arguments and replaces all the vowels in a string with character.

```
** Examples

replaceVowels("the aardvark", "#") → "th# ##rdv#rk"
replaceVowels("minnie mouse", "?") → "m?nn?? m??s?"

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function vowels(str, symbol){

return str.replace(/[aeiuo]/gi,symbol)
}

console.log(vowels("simplon", "#"));
```

4.Create a function that takes an input (e.g. "5 + 4") and returns true if it's a mathematical expression or false if not.

```
mathExpr("4 + 5") → true

mathExpr("4*6") → true

mathExpr("4*no") → false

------

function math(str)
{

let pattern= /([-+/*\s]\d+(\s\.\d+)?)/;

return pattern.test(str):
}

console.log(math('2+1'));
```

5.Create a function that takes a string as argument and return whether a string contains the characters "a" and "c" (in that order) with any number of characters (including zero) between them

Use the .test() method in your function

6.Create a function that takes a string as argument and write a regular expression that matches a string if and only if it is a valid zip code Zip Codes must be 5 digits long exactly and only contain numbers.

```
"20438" → true

"1#368" → false

"202801" → false

function zipCode(str)
{
regexp = /^[0-9]{5}?$/;
```

```
if (regexp.test(str))
{
    return true;
}
else
{
    return false;
}
console.log(zipCode(55555));
```
