String - Assignment Solutions

1.

```javascript
function truncate(str, no_words) {
    return str.split(" ").splice(0,no_words).join(" ");
}
console.log(truncate('The quick brown fox jumps over the lazy dog', 4));
```

2.

```javascript
function remove_first_occurrence(str, searchstr)         {
     var index = str.indexOf(searchstr);
     if (index === -1) {
          return str;
     }
     return str.slice(0, index) + str.slice(index + searchstr.length);
}

console.log(remove_first_occurrence("The quick brown fox jumps over the lazy
dog", 'the'));
```

3.

```javascript
function search_word(text, word){

    var x = 0, y=0;

    for (i=0;i< text.length;i++)
        {
        if(text[i] == word[0])
            {
            for(j=i;j< i+word.length;j++)
                {
                if(text[j]==word[j-i])
                    {
                     y++;
                    }
                if (y==word.length){
                     x++;
                    }
                }
            y=0;
        }
    }
   return "'"+word+"' was found "+x+" times.";
}

console.log(search_word('The quick brown fox', 'fox'));
console.log(search_word('aa, bb, cc, dd, aa', 'aa'));
```

4.

```
const test = (text) => {
  if (typeof text !== 'string') {
    return 'It must be a string.'
  }
  const pattern = /^[a-z]*$/
  return pattern.test(text)
}
console.log(test('JavaScriptExercises'))
console.log(test('javascriptexercises'))
console.log(test(12356))
```

5.

```
function successor(str) {
        var alphabet = 'abcdefghijklmnopqrstuvwxyz',
            length = alphabet.length,
            result = str,
            i = str.length;

        while(i >= 0) {
            var last = str.charAt(--i),
                next = '',
                carry = false;

            if (isNaN(last)) {
                index = alphabet.indexOf(last.toLowerCase());

                if (index === -1) {
                    next = last;
                    carry = true;
                }
                else {
                    var isUpperCase = last === last.toUpperCase();
                    next = alphabet.charAt((index + 1) % length);
                    if (isUpperCase) {
                        next = next.toUpperCase();
                    }

                    carry = index + 1 >= length;
                    if (carry && i === 0) {
                        var added = isUpperCase ? 'A' : 'a';
                        result = added + next + result.slice(1);
                        break;
                    }
                }
            }
            else {
                next = +last + 1;
                if(next > 9) {
                    next = 0;
                    carry = true;
```

```
                }

                if (carry && i === 0) {
                    result = '1' + next + result.slice(1);
                    break;
                }
            }

            result = result.slice(0, i) + next + result.slice(i + 1);
            if (!carry) {
                break;
            }
        }
        return result;
    }

console.log(successor('abcd'));
console.log(successor('3456'));
```