

Exercise #2 – JavaScript Activity

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Part 1

1. Number -> Word

```
> let number = 691
//Check if number is number only
if (isFinite(number) == true) {

    let s_number = number.toString();
    let s_ones = "";
    let s_tens = "";
    let s_hundred = "";
    let a_ones =
["Zero", "One", "Two", "Three", "Four", "Five", "Six", "Seven", "Eight", "Nine"];
    let a_teens =
["Ten", "Eleven", "Twelve", "Thirteen", "Fourteen", "Fifteen", "Sixteen", "Seve
nteen", "Eighteen", "Nineteen"];
    let a_tens =
["", "", "Twenty", "Thirty", "Forty", "Fifty", "Sixty", "Seventy", "Eighty", "Nin
ety"];
    if (s_number.length == 1) {
        //For single digit
        s_ones = a_ones[s_number[1]];
        console.log(s_ones);
    }
    else if (s_number.length == 2) {
        //For double digit
        switch (s_number[0]) {
            case "1":
                //For 10s
                s_tens = a_teens[s_number[1]];
                console.log(s_tens);
                break;
            default:
                //For Others
                s_tens = a_tens[s_number[0]];
                s_ones = a_ones[s_number[1]];
                console.log(s_tens + " " + s_ones);
                break;
        }
    }
}
```

```

else if (s_number.length == 3) {
    //For Triple digit
    s_hundred = a_ones[s_number[0]] + " Hundred";
    switch (s_number[1]) {
        case "1":
            //For 10s
            s_tens = a_tens[s_number[1]];
            console.log(s_hundred + " " + s_tens);
            break;
        default:
            //For Others
            s_tens = a_tens[s_number[1]];
            s_ones = a_ones[s_number[2]];
            console.log(s_hundred + " " + s_tens + " " + s_ones);
            break;
    }
}
else {
    console.log("Error - other character entered"); }
}
else {
    console.log("Error - other character entered"); }

```

Six Hundred Ninety One

[VM2777:47](#)



num - 1 - number
to word -txt

2. Inverted Right Triangle

```
> let height = 20;
let s_lineout = "";
let s_times = height;
let orig_height = height;
let num_decrement = 0;
//Checking if negative value or right character
if (isFinite(height) == true && height > 0) {
  while (height != 0) {

    s_times = orig_height;
    num_decrement = orig_height - height;

    while (s_times != 0) {
      if (num_decrement >= s_times) {
        s_lineout = " " + s_lineout;
      }
      else {
        s_lineout = s_lineout + " *";
      }
      s_times--;
    }

    console.log(s_lineout);
    height--;
    s_lineout = "";

  }
}
else {
  console.log("Error - other character entered");
}
```

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```



num - 2 - triangle
- .txt

3. X - Shape

```
> let height = 5;
let counter = 0;
let lastnum = 0;
let row = "";
//Check if negative number and height is odd
if (height > 0 && height % 2 !== 0 && isFinite(height) == true) {
  for (let i = 1; i <= height; i++){

    lastnum = height - counter;
    for (let j = 1; j <= height; j++){
      if (i==j) {
        row = row + "*";
      }
      else if (j==lastnum) {
        row = row + "*";
      }
      else {
        row = row + " ";
      }
    }
    console.log(row);
    row = "";
    counter++;
  }
}
else {
  console.log("Error - Enter right values");
}
```

```
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```

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num - 3 - X -.txt

Part 2

1. Perimeter – Triangle

```
> function perimeter_triangle(a,b,c) {  
    return a + b + c;  
}  
◀ undefined  
> let output = perimeter_triangle(1,4,5);  
◀ undefined  
> console.log(output);  
10 VM987:1
```



part 2 - num 1 -
triangle perimeter.tx

2. Color – Array

```
> let color = ["Blue ", "Green", "Red", "Orange", "Violet", "Indigo",  
"Yellow "];  
let o = ["th","st","nd","rd"];  
let output = "";  
let s_choice = " choice is ";  
let s_color = "";  
for (var i = 0; i < color.length; i++) {  
  output = "";  
  let num = i + 1;  
  switch (i) {  
    case 0:  
    s_color = o[1];  
    break;  
    case 1:  
    s_color = o[2];  
    break;  
    case 2:  
    s_color = o[3];  
    break;  
    default:  
    s_color = o[0];  
    break;  
  }  
  output = num + s_color + s_choice + color[i];  
  console.log(output);  
}
```

1st choice is Blue	VM1715:24
2nd choice is Green	VM1715:24
3rd choice is Red	VM1715:24
4th choice is Orange	VM1715:24
5th choice is Violet	VM1715:24
6th choice is Indigo	VM1715:24
7th choice is Yellow	VM1715:24

< undefined



part 2 - num 2 -
color.txt

3. Skill – Object

```
> let record = [{
  "Name": "Gibo",
  "Age": 16,
  "SkillSet": [{
    "Skill": "SAP UI5"
  }, {
    "Skill": "SAP HANA"
  }]
}, {
  "Name": "Patrick",
  "Age": 22,
  "SkillSet": [{
    "Skill": "SAP UI5"
  }, {
    "Skill": "SAP HANA"
  }, {
    "Skill": "SAP ABAP"
  }]
}, {
  "Name": "MJ",
  "Age": 24,
  "SkillSet": [{
    "Skill": "SAP HANA"
  }]
}];
let n_highest_skill_ind = 0;
let n_num_skills = 0;
let n_prev_skills = 0;
for (let i = 0; i < record.length; i++)
{
  n_num_skills = record[i].SkillSet.length;
  //Compare number of Skills from previous
  if (n_num_skills > n_prev_skills)
  {
    n_highest_skill_ind = i;
    n_prev_skills = n_num_skills;
  }
}
console.log(record[n_highest_skill_ind].Name);
console.log(record[n_highest_skill_ind].Age);
```

Patrick	VM2885:39
22	VM2885:40



part 2 - num 3 -
skillset.txt