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JavaScript Assignment 3

1. Using for loops, write a Javascript program to output the following pattern -

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

//Program to print the pattern

```
let k=1;
let str="";
for (let i = 1; i <=4; i++) {
  for(let j =1; j <=i; j++) {
    str += k+" ";
    k++;
  }
  str += "\n"
}
console.log(str);
```

-
2. Write a program to find whether a given number is Armstrong number or not-

// Program to find given number is Armstrong or not

```
function isArmstrong(number) {
  let givenNumber = number;
  let cubeSum=0;
  while(givenNumber !=0) {
    let digit = givenNumber % 10;
    cubeSum += (digit*digit*digit);
    givenNumber = parseInt(givenNumber /10);
  }
}
```

```

    if(number == cubeSum) {
        return (`Given Number ${number} is Armstrong Number.`)
    }
    else {
        return (`Given Number ${number} is not an Armstrong Number.`)
    }
}

```

//function checking

```

let result = isArmstrong(100);
console.log(result);

```

3. Write a program to find whether a given number is special number or not.

// Program to find given number is a Special Number or not

```

function isSpecialNumber(number) {
    let givenNumber = number;
    let factSum=0;
    while(givenNumber != 0) {
        let digit = givenNumber % 10;
        let fact = 1;
        for (let i=1; i<=digit; i++) {
            fact *= i;
        }
        factSum += fact;
        givenNumber = parseInt(givenNumber/10);
    }
    if(number == factSum) {
        return (`Given number ${number} is a Special Number.`)
    }
    else {
        return (`Given number ${number} is not a Special Number.`)
    }
}

```

//function checking

```

let result = isSpecialNumber(145);
console.log(result);

```