

## Tasks on 12-9-24:

**Task-1:** Create a function isLeapYear that takes a year as an argument and returns true if the year is a leap year, and false otherwise.

```
JS index.js > leapYear
1  function leapYear (year){
2      if(year%400 == 0 || (0 == year % 4) && (0 != year % 100)){
3          return `entered year ${year} is a leap year or True`
4      }
5      else{
6          return `entered year ${year} is not a leap year or false`;
7      }
8  }
9  result = leapYear(2020);
10 console.log(result);
11 result = leapYear(2021);
12 console.log(result);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
[Running] node "d:\my files\daily_activity\day43\index.js"
entered year 2020 is a leap year or True
entered year 2021 is not a leap year or false
```

```
[Done] exited with code=0 in 0.139 seconds
```

**Task-2:** Write a function `isPositive` that takes a number as an argument and returns `true` if the number is positive, and `false` if it is negative.

```
JS index1.js > ...
1  function isPositive(num){
2      if(num > 0){
3          return `entered number ${num} is a positive number or True`
4      }
5      else if(num == 0){
6          return `given number is zero it is nethier positive nor negative`
7      }
8      else{
9          return `entered number ${num} is a negative or false`;
10     }
11 }
12 result = isPositive(5);
13 console.log(result);
14 result = isPositive(-3);
15 console.log(result);
16 result = isPositive(0);
17 console.log(result);
```

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[Running] node "d:\my files\daily\_activity\day43\index1.js"

entered number 5 is a positive number or True

entered number -3 is a negative or false

given number is zero it is nethier positive nor negative

[Done] exited with code=0 in 0.14 seconds

**Task-3:** Create a function `isDivisibleBy3And5` that takes a number as an argument and returns true if the number is divisible by both 3 and 5, and false otherwise.

```
JS index2.js > isDivisibleby
1  function isDivisibleby (num){
2      if(num%3==0 && num%5==0){
3          return `entered number ${num} is divisible by both 3 and 5 or True`
4      }
5      else{
6          return `entered number ${num} is not divisible by both 3 and 5 or false`;
7      }
8  }
9  result = isDivisibleby(15);
10 console.log(result);
11 result = isDivisibleby(10);
12 console.log(result);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
[Running] node "d:\my files\daily_activity\day43\index2.js"
entered number 15 is divisible by both 3 and 5 or True
entered number 10 is not divisible by both 3 and 5 or false
```

```
[Done] exited with code=0 in 0.145 seconds
```

**Task 4:** Write a function `isVowel` that takes a character as an argument and returns `true` if the character is a vowel, and `false` if it is a consonant.

```
JS index3.js > ...
1  function isvowel (letter){
2      if(letter === 'a' || letter === 'e' || letter === 'i' || letter === 'o' || letter === 'u'){
3          return `entered letter ${letter} is a vowel or True`
4      }
5      else if(letter === 'A' || letter === 'E' || letter === 'I' || letter === 'O' || letter === 'U'){
6          return `entered letter ${letter} is a vowel or True`
7      }
8      else{
9          return `entered letter ${letter} is a consonant or false`
10     }
11 }
12 result = isvowel('a');
13 console.log(result);
14 result = isvowel('b');
15 console.log(result);
16 result = isvowel('A');
17 console.log(result);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Running] node "d:\my files\daily\_activity\day43\index3.js"

entered letter a is a vowel or True

entered letter b is a consonant or false

entered letter A is a vowel or True

[Done] exited with code=0 in 0.237 seconds

**Task-5:** Write a function isUppercase that takes a character as an argument and returns true if the character is uppercase, and false if it is lowercase.

```
JS index4.js > ...
1  function isUppercase (letter){
2      if(letter === 'A' || letter === 'B' || letter === 'C' || letter === 'D' || letter === 'E'
3          || letter === 'F' || letter === 'G' || letter === 'H' || letter === 'I' || letter === 'J'
4          || letter === 'K' || letter === 'L' || letter === 'M' || letter === 'N' || letter === 'O'
5          || letter === 'P' || letter === 'Q' || letter === 'R' || letter === 'S' || letter === 'T'
6          || letter === 'U' || letter === 'V' || letter === 'W' || letter === 'X' || letter === 'Y' || letter === 'Z')
7      ){
8          return `entered letter ${letter} is a uppercase letter or True`
9      }
10     else if(letter === 'a' || letter === 'b' || letter === 'c' || letter === 'd' || letter === 'e'
11         || letter === 'f' || letter === 'g' || letter === 'h' || letter === 'i' || letter === 'j'
12         || letter === 'k' || letter === 'l' || letter === 'm' || letter === 'n' || letter === 'o'
13         || letter === 'p' || letter === 'q' || letter === 'r' || letter === 's' || letter === 't'
14         || letter === 'u' || letter === 'v' || letter === 'w' || letter === 'x' || letter === 'y' || letter === 'z'){
15
16         return `entered letter ${letter} is a lowercase letter or false`
17     }
18     else{
19         return `entered is not letter it is symbol or something other than aplahabets`
20     }
21 }
22 result = isUppercase('A');
23 console.log(result);
24 result = isUppercase('a');
25 console.log(result);
26 result = isUppercase('$');
27 console.log(result);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Running] node "d:\my files\daily\_activity\day43\index4.js"

entered letter A is a uppercase letter or True

entered letter a is a lowercase letter or false

entered is not letter it is symbol or something other than aplahabets

