Training Day15 Report

(27 June 2024)

Surprise test:

1. Sum of only Positive Numbers.
2. Write a JavaScript program to calculate the days left before Christmas.
3. Write a JavaScript program to determine whether a given year is a leap year in the Gregorian calendar.

PROGRAM 1:

```javascript
letx=0,sum=0;
while(x<=10)
    {
        sum=sum+x;
        x++;
    }
    console.log('sumofpositivenumbers:',sum);
```

OUTPUT:

PSC:\Users\dell\Documents\Javascript.js>node

"c:\Users\dell\Documents\Javascript.js\sum.js"

sumofpositivenumbers:55

PROGRAM 2:

```javascript
lettodayDate=newDate();
console.log("Today'sdateisdefinedas:",todayDate) let
christmasYear = todayDate.getFullYear();
if(todayDate.getMonth()==11&&todayDate.getDate()>25){ christmasYear =
    christmasYear + 1;
}

letchristmasDate=newDate(christmasYear,11,25);
```

```
letdayMilliseconds=1000*60*60*24; let
daysLeft = Math.ceil(
    (christmasDate.getTime()-todayDate.getTime())/(dayMilliseconds)
);
console.log("Thenumberofdaysleftforchristmasis:") console.log(daysLeft)
```

OUTPUT:

PSC:\Users\dell\Documents\Javascript.js>node

"c:\Users\dell\Documents\Javascript.js\yr.js"

Today'sdateisdefinedas: 2024-06-27T13:08:28.068Z The

number of days left for christmas is:

181

PROGRAM 3:

```
functionisLeapYear(year){ if
    (
        year%100===0?year%400===0:year%4===0
    )
        console.log("Inputyear:",year,"isaLeapYear");
    else
        console.log(
            "Inputyear:",
            year,
            "isNOTaLeapYear"
        );
}

let inputYear = 2020;
isLeapYear(inputYear);
inputYear = 2021;
isLeapYear(inputYear);
inputYear = 2022;
isLeapYear(inputYear);
inputYear = 2023;
isLeapYear(inputYear);
inputYear=2024;
```

```
isLeapYear(inputYear);
inputYear = 2025;
isLeapYear(inputYear);
```

OUTPUT:

PS C:\Users\dell\Documents\Javascript.js> node
"c:\Users\dell\Documents\Javascript.js\tempCodeRunnerFile.js"

Input year: 2020 is a Leap

YearInputyear:2021isNOTaLeapYea

r Inputyear:2022isNOTaLeapYear

Inputyear:2023isNOTaLeapYear

Input year: 2024 is a Leap

YearInputyear:2025isNOTaLeapYea

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