DAY – 4

Exercises: Level 1

1. Get user input using prompt("Enter your age:"). If user is 18 or older , give feedback:'You are old enough to drive' but if not 18 give another feedback stating to wait for the number of years he needs to turn 18.

```
Enter your age: 30
You are old enough to drive.

Enter your age:15
You are left with 3 years to drive.
```

```
let age = prompt("Enter your age:");
if(age >= 18)
  console.log("You are old enough to drive");
else
  console.log(`You are left with ${18-age} years to drive.`);
```

2. Compare the values of myAge and yourAge using if ... else. Based on the comparison and log the result to console stating who is older (me or you). Use prompt("Enter your age:") to get the age as input.

```
Enter your age: 30
  You are 5 years older than me.
```

```
let myAge = prompt("Enter my age:");
let yourAge = prompt("Enter your age:");
if(myAge > yourAge)
 console.log(`I am ${myAge-yourAge} years older than you.`);
else
 console.log(`You are ${yourAge-myAge} years older than me.`);
```

3. If a is greater than b return 'a is greater than b' else 'a is less than b'. Try to implement it in to ways
    - using if else

```
if(a > b)
   console.log(`${a} is greater than ${b}`);
else
   console.log(`${b} is greater than ${a}`);
```

    - ternary operator.

```
(a>b)?
   console.log(`${a} is greater than ${b}`)
:
   console.log(`${b} is greater than ${a}`)
```

```
let a = 4
let b = 3
```

```
4 is greater than 3
```

4. Even numbers are divisible by 2 and the remainder is zero. How do you check, if a number is even or not using JavaScript?

```
Enter a number: 2
2 is an even number

Enter a number: 9
9 is an odd number.
```

```
let num = prompt("Enter a number:");
(num%2 == 0)?
   console.log(`${num} is an even number.`)
:
   console.log(`${num} is an odd number.`)
```

Exercises: Level 2

1. Write a code which can give grades to students according to theirs scores:
    - 90-100, A
    - 70-89, B
    - 60-69, C
    - 50-59, D
    - 0-49, F

```
let marks = prompt("Enter your marks.");
let grade;

if(marks >=90)  grade ='A';
else if(marks>=70 && marks <=89) grade = 'B';
else if(marks>=60 && marks <=69) grade = 'C';
else if(marks>=50 && marks <=59) grade = 'D';
else grade = 'F';
```

2. Check if the season is Autumn, Winter, Spring or Summer. If the user input is :
    - September, October or November, the season is Autumn.
    - December, January or February, the season is Winter.
    - March, April or May, the season is Spring
    - June, July or August, the season is Summer

```
let month = prompt("Enter the month");
if(month == "September" || month == "October" || month ==
"November")
    console.log("The season is Autumn");
else if(month == "December" || month == "January" || month ==
"February")
```

```
      console.log("The season is Winter");
else if(month == "March" || month == "April" || month == "May")
     console.log("The season is Spring");
else
    console.log("The season is Summer");
```

3. Check if a day is weekend day or a working day. Your script will take day as an input.

```
What is the day  today? Saturday
Saturday is a weekend.

What is the day today? saturDaY
Saturday is a weekend.

What is the day today? Friday
Friday is a working day.

What is the day today? FrIDAy
Friday is a working day.
```

```
const day = prompt("What is the day  today?");
if(day.toLowerCase() == "saturday" || day.toLowerCase() ==
"sunday") {
    console.log(`${day} is a weekend.`);
} else {
    console.log(`${day} is a working day`);
}
```

Exercises: Level 3

1. Write a program which tells the number of days in a month.

```
Enter a month: January
 January has 31 days.

 Enter a month: JANUARY
 January has 31 day

 Enter a month: February
 February has 28 days.

 Enter a month: FEbruary
 February has 28 days.
```

```
const monthInfo = [{name: "January", days: "31"},
                   {name: "February", days: "28"},
                   {name: "March", days: "31"},
```

```
                    {name: "April", days: "30"},
                    {name: "May", days: "31"},
                    {name: "June", days: "30"},
                    {name: "July", days: "31"},
                    {name: "August", days: "31"},
                    {name: "September", days: "30"},
                    {name: "October", days: "31"},
                    {name: "November", days: "30"},
                    {name: "December", days: "31"}
                    ]
const day = prompt("What is the day  today?");
for(month of monthInfo) {
  if(day.toLowerCase() == month.name.toLowerCase()) {
    console.log(`${month.name} has ${month.days} days`)
  }
}
```

2. Write a program which tells the number of days in a month, now consider leap year.

```
const monthInfo = [{name: "January", days: "31"},
                   {name: "February", days: "29"},
                   {name: "March", days: "31"},
                   {name: "April", days: "30"},
                   {name: "May", days: "31"},
                   {name: "June", days: "30"},
                   {name: "July", days: "31"},
                   {name: "August", days: "31"},
                   {name: "September", days: "30"},
                   {name: "October", days: "31"},
                   {name: "November", days: "30"},
                   {name: "December", days: "31"}
                   ]
const day = prompt("What is the day  today?");
for(month of monthInfo) {
  if(day.toLowerCase() == month.name.toLowerCase()) {
    console.log(`${month.name} has ${month.days} days`)
  }
}
```