

HW2

دوره مکتب ۳۴ (فرانت)

مصطفی جمالی

(۱) تبدیل درجه سلیسیوس به فارنهایت:

```
let T = prompt("input a Celsius degree temperature:" , "");  
alert(`The Farenheit temperature is: ${T*(9/5)+32}`);
```

```
> let T = prompt("input a Celsius degree temperature:" , "");  
    console.log(`The Farenheit temperature is: ${T*(9/5)+32}`);
```

(۲) تبدیل اینچ به متر:

```
let a = prompt("input a inches number:" , "");  
alert(`The meteric number is: ${((2.54*a)/100)}`);
```

```
> let a = prompt("input a inches number:" , "");  
    alert(`The meteric number is: ${((2.54*a)/100)}`);
```

(۳) تبدیل میلی ثانیه به ثانیه، دقیقه، ساعت، روز، ماه و ...:

```
function convertMS( milliseconds ) {  
    var year, month, day, hour, minute, seconds , millisecond;  
  
    millisecond = Math.floor(millisecond / 1000);  
    seconds = seconds % 1000;  
    seconds = Math.floor(milliseconds / 1000);  
    millisecond = milliseconds % 1000;  
    minute = Math.floor(seconds / 60);  
    seconds = seconds % 60;  
    hour = Math.floor(minute / 60);
```

```

minute = minute % 60;
day = Math.floor(hour / 24);
hour = hour % 24;
month = Math.floor(day / 30);
day = day % 30;
year = Math.floor(month / 12);
month = month % 12;
return (
    year+" year "+month+" month "+day+" day "+hour+" hour "+minute+" minute "+seconds+"
seconds "+millisecond+" millisecond"
);
}
console.log(convertMS());

```

```

> function convertMS( milliseconds ) {
    var year, month, day, hour, minute, seconds , millisecond;

    millisecond = Math.floor(millisecond / 1000);
    seconds = seconds % 1000;
    seconds = Math.floor(milliseconds / 1000);
    millisecond = milliseconds % 1000;
    minute = Math.floor(seconds / 60);
    seconds = seconds % 60;
    hour = Math.floor(minute / 60);
    minute = minute % 60;
    day = Math.floor(hour / 24);
    hour = hour % 24;
    month = Math.floor(day / 30);
    day = day % 30;
    year = Math.floor(month / 12);
    month = month % 12;
    return (
        year+" year "+month+" month "+day+" day "+hour+" hour "+minute+" minute "+seconds+" seconds "+millisecond+"
millisecond"
    );
}
console.log(convertMS());

```

(٤) محاسبه شاخص BMI:

```
let weight = prompt("input weight (in kg):" , "");
```

```
let height = prompt("input height(in m):" , "");
```

```
let BMI = weight/(height*height)
```

```
alert(`The BMI is: ${BMI.toFixed(1)}`);
```

```
> let weight = prompt("input weight (in kg):" , "");  
    let height = prompt("input height(in m):" , "");  
    let BMI = weight/(height*height)  
    alert(`The BMI is: ${BMI.toFixed(1)}`);
```

(۵) سورت (مرتب) کردن ۱۵ عدد گرفته شده از ورودی:

```
let Array=[];
```

```
for (let i=0 ; i<15 ; i++){
```

```
var num= prompt("input a number","");
```

```
Array.push(num);
```

```
}
```

```
alert(Array.sort());
```

```
> let Array=[];  
    for (let i=0 ; i<15 ; i++){  
        var num= prompt("input a number","");  
        Array.push(num);  
    }  
  
    alert(Array.sort());
```

(۶) ساخت الماسی از ستاره‌ها:

```
function diamond(arg) {
```

```
    if(arg === 1) {return "*"}
```

```
    var str = ""
```

```
    for(var i = 1 ; i <= arg+1; i++) {
```

```

    str += Array(i).join('*') + '\n'
  }

  for(var j = arg ; j > 1; j--) {

    str += Array(j).join('*') + '\n'

  }

  return str
}

alert(diamond(7))

> function diamond(arg) {
    if(arg === 1) {return "*" }
    var str = ""
    for(var i = 1 ; i <= arg+1; i++) {
      str += Array(i).join('*') + '\n'
    }
    for(var j = arg ; j > 1; j--) {
      str += Array(j).join('*') + '\n'
    }
    return str
  }
  alert(diamond(7))

```

٧) جمع مقادیر یک آرایه:

```

let arr = [1, 2, 3, 4, 5];

let result = arr.reduce((sum, current) => sum + current);

alert( result );

> let arr = [1, 2, 3, 4, 5];
   let result = arr.reduce((sum, current) => sum + current);
   alert( result );

```

```

let inputArray = [];

for(let i=0; i<10; i++) {

    inputArray[i] = prompt("enter a character:", "");

}

let num = prompt("enter a number:", "");

for (let j=0 ; j<num ; j++){

    inputArray.push(inputArray.shift())

}

alert(inputArray);

```

```

> let inputArray = [];
  for(let i=0; i<10; i++) {
    inputArray[i] = prompt("enter a character:", "");
  }
  let num = prompt("enter a number:", "");
  for (let j=0 ; j<num ; j++){
    inputArray.push(inputArray.shift())
  }
  alert(inputArray);

```

```

let inputArray = [];

for(let i=0; i<10; i++) {

    inputArray[i] = prompt("enter a character:", "");

}

let num = prompt("enter a number:", "");

```

```
for (let j=0 ; j<num ; j++){  
    inputArray.unshift(inputArray.pop())  
}  
  
alert(inputArray);
```

```
> let inputArray = [];  
    for(let i=0; i<10; i++) {  
        inputArray[i] = prompt("enter a character:", "");  
    }  
    let num = prompt("enter a number:", "");  
    for (let j=0 ; j<num ; j++){  
        inputArray.unshift(inputArray.pop())  
    }  
    alert(inputArray);
```

۱۰) تبدیل عدد به حروف: