Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 41
FET Practical 5
Code Link for all practicals:

Institute of Computer Technology
B. Tech. Computer Science and Engineering

https://github.com/yashslakhtariya/sem4practicals/tree/main/FET

**Sub: FET (2CSE410)** 

Practical - 5 (Using Functions and Objects)

Objective: To understand the usage of functions and objects in JavaScript.

#### Exercise 1:

In a part of development an algorithm for security, there is a need to get a perfect number greater than a number entered by the end-user. Note: According to Wikipedia: In number theory, a perfect number is a positive integer that is equal to the sum of its proper positive divisors, that is, the sum of its positive divisors excluding the number itself (also known as its aliquot sum). OR Equivalently, a perfect number is a number that is half the sum of all of its positive divisors (including itself).

### **HTML:**

```
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```

### JS:

```
function prfctornot(n)
{
   sum = 1;
   for (let i=2; i*i \le n; i++)
   {
       if (n\%i=0)
       {
           if(i*i\neq n)
               sum = sum + i + n/i;
           else
                sum=sum+i;
       }
   }
   if (sum = n \&\& n \neq 1)
       return true;
   return false;
nmbr = prompt("Enter a number to find perfect numbers greater than it :
");
while(!Number.isInteger(parseInt(nmbr)))
```

```
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```

```
alert("Invalid Input!");
nmbr = prompt("Enter a valid number : ");
}
nmbr = parseInt(nmbr);

let i = nmbr+1;
while(i > nmbr)
{
    if(prfctornot(i))
    {
        alert(`The perfect number greater than ${nmbr} is ${i}`);
        break;
    }
    i++;
}
```

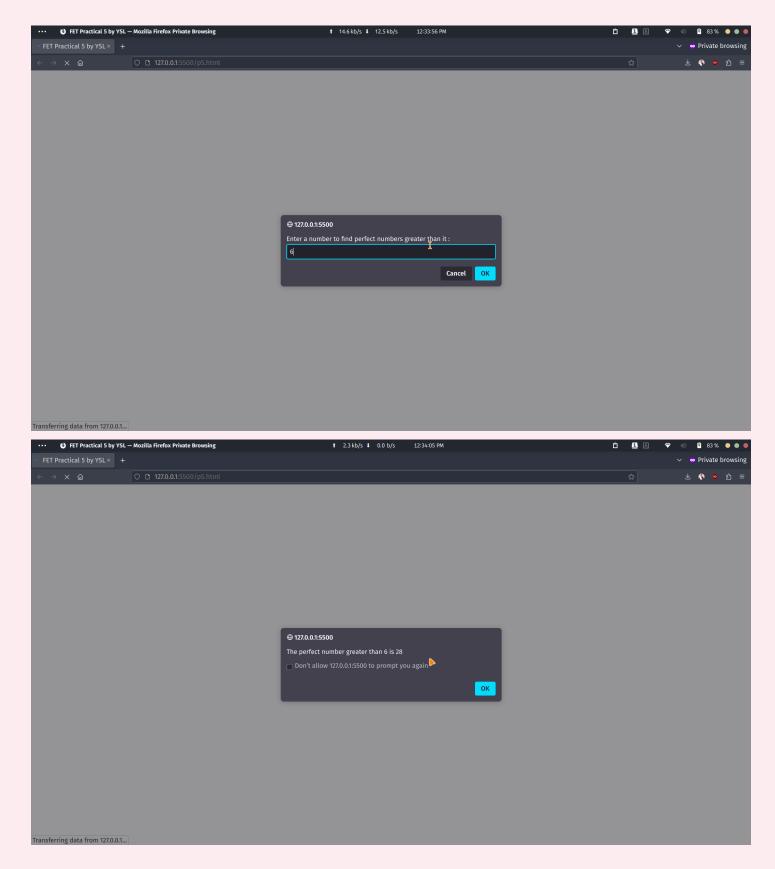
# **Output:**

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```
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```

#### Exercise 2:

In an application of computing salaries of the employees, consider name, salary and number of working days of an employee to calculate his salary. (Create an object having 2 properties, namely name and working days per month, for each employee. Then compute the salary of each employee.)

\*\* Take at least 5 employees in an object.

### **HTML:**

# <u>JS:</u>

```
let slryperday = 6400;
function emp(name, wdpm)
{
    return {
```

```
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```

```
name: name,
  };
};
function getslry(wdpm)
{
  return slryperday * wdpm;
};
function show(empl)
{
  alert(`Employee Name : ${empl.name}\nEmployee Salary :
${getslry(empl.wdpm)}`);
};
show(emp1);
show(emp2);
```

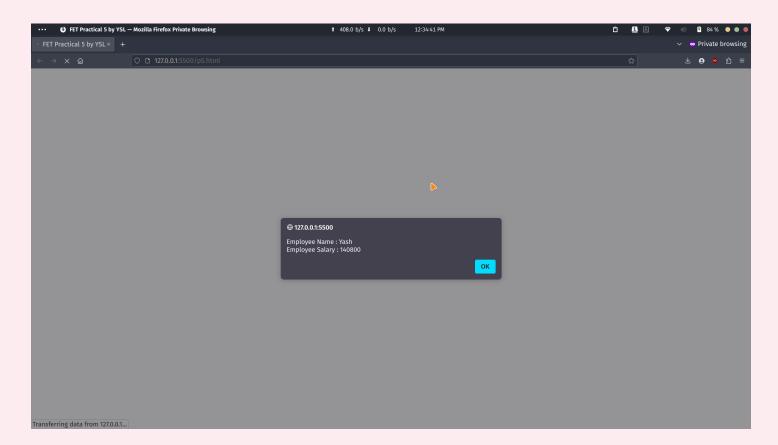
Name - Yash Lakhtariya
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FET Practical 5

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```
show(emp3);
show(emp4);
show(emp5);
```

## **Output:**

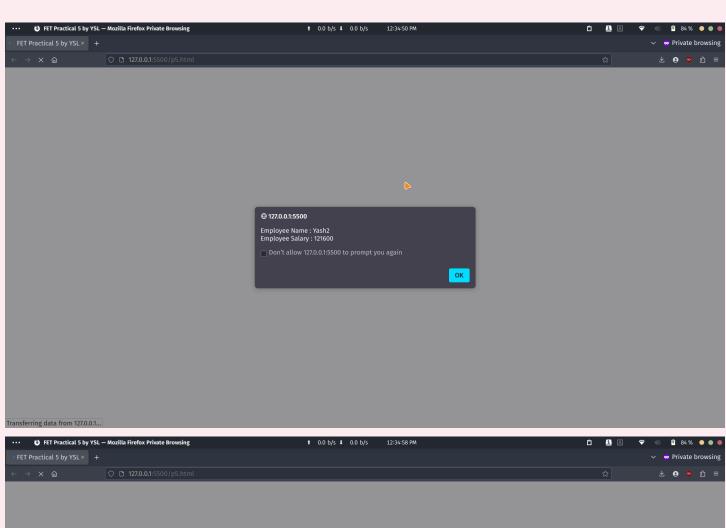


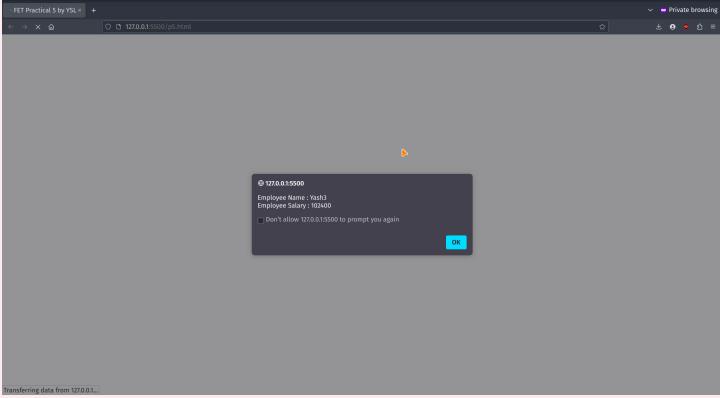
Name - Yash Lakhtariya Enrollment number - 21162101012 Branch - CBA Batch - 41

**FET Practical 5** 

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**FET Practical 5** 

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