Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 41
FET Practical 4
Code Link for all practicals :
https://github.com/yashslakhtariya/sem4practicals/tree/main/FET

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

Sub: FET (2CSE410)
Practical - 4 (Use Math Object)

Objective : To understand the usage of Math object in JavaScript.

Exercise 1:

You are about to develop a cryptographic algorithm in which there is a need to get double the absolute difference between a given number and 13. Develop the logic in JavaScipt.

HTML :

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>FET Prac_4 by YSL</title>
</head>
<body>
    <script src="ex1.js"></script>
</body>
</html>
```

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JS :

```
nmbr = prompt("Enter any number : ");
while(!Number.isInteger(parseInt(nmbr)))
{
    alert("Invalid Input!");
    nmbr = prompt("Enter a valid number : ");
}

alert(absdiff(nmbr));

function absdiff(n)
{
    n = parseInt(n);
    return 2*Math.abs(n-13);
}
```

Output :

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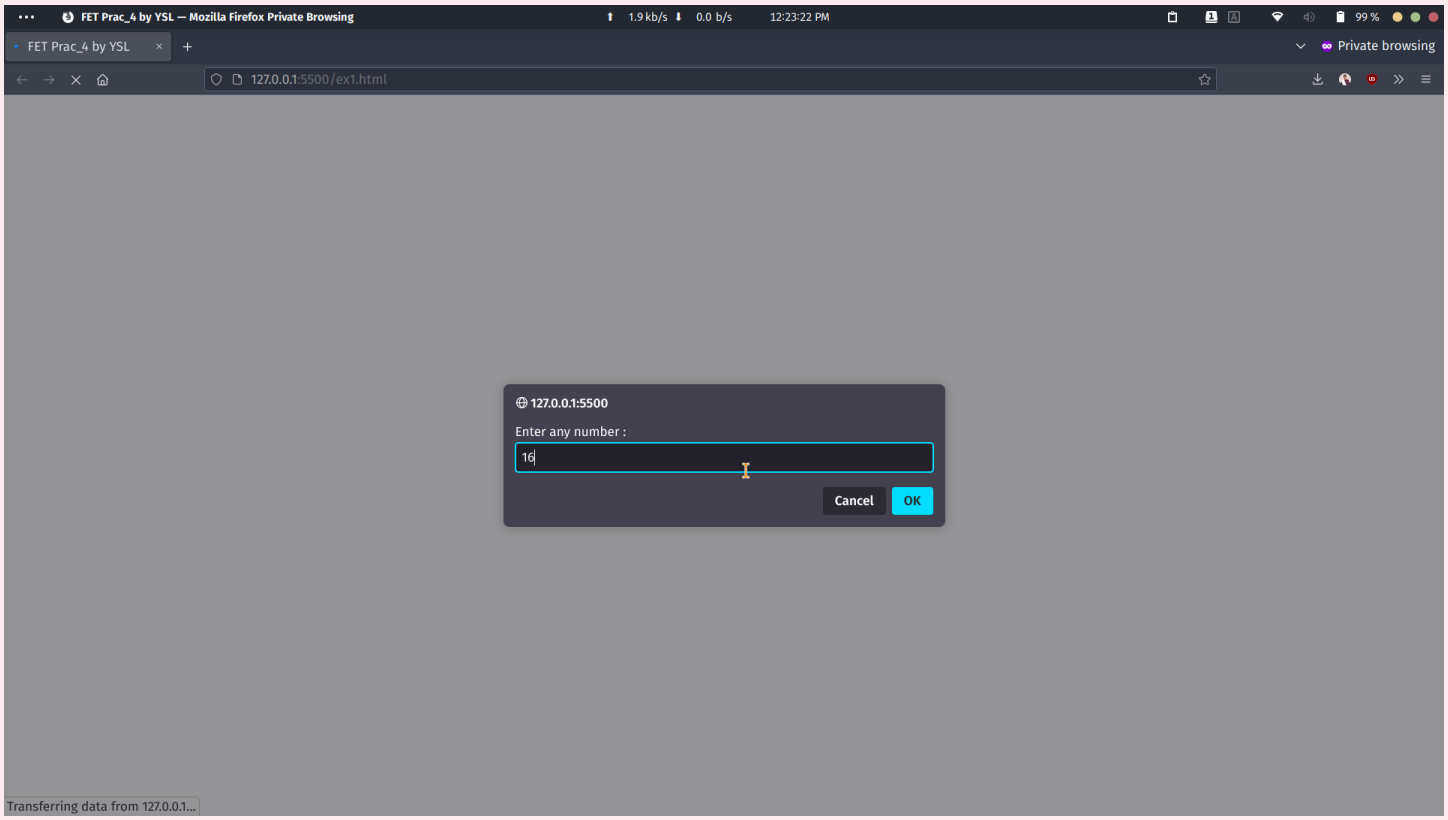

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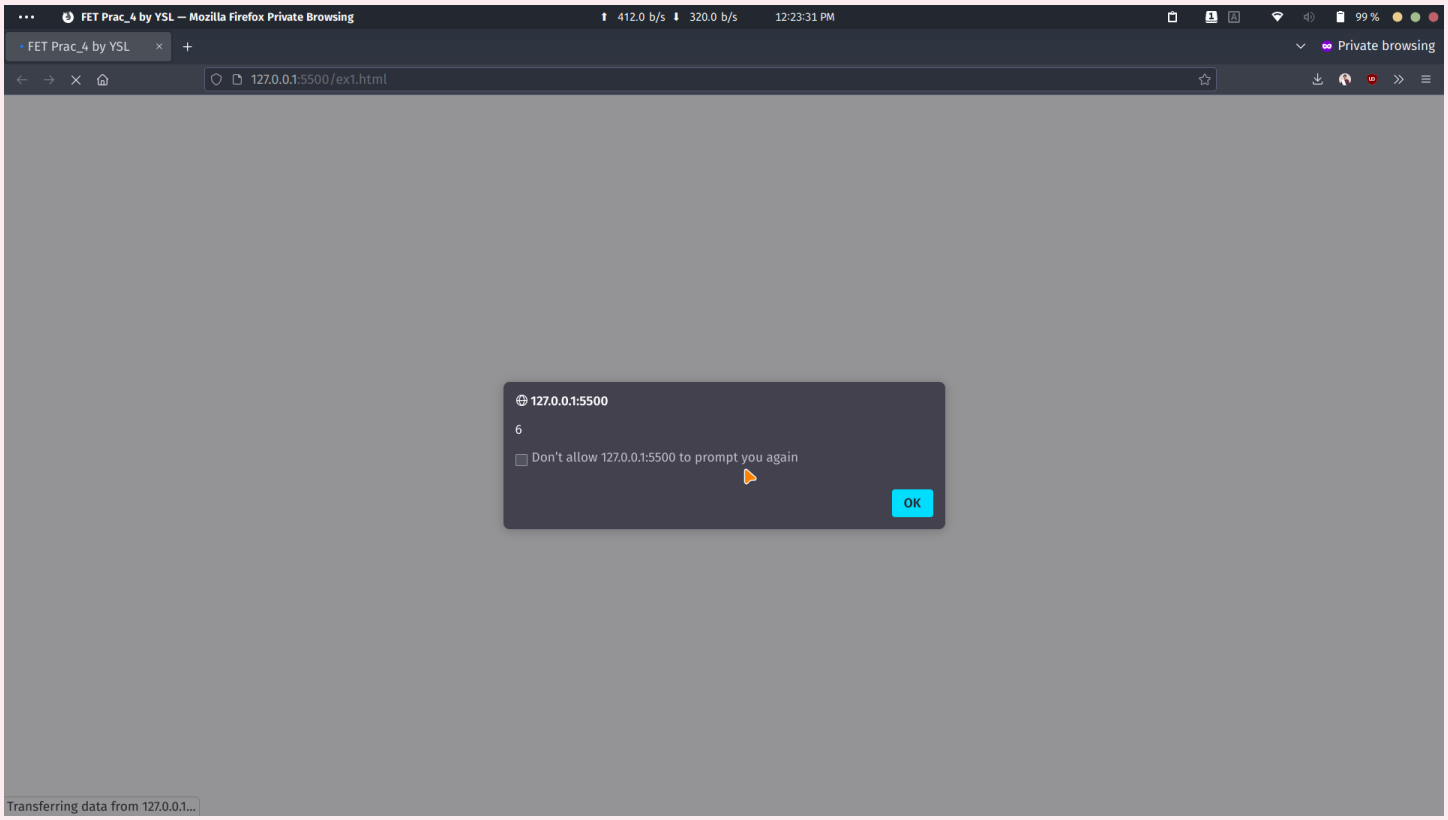

Exercise 2:

A small guessing game is to be developed which takes a random integer between 1 to 5, the user is then prompted to input a guess number. If the user input matches with guess number, the program will display a message “Good Work” otherwise display a message “Not matched”

HTML :

```
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<html lang="en">
<head>
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```

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```
</head>
<body>
    <script src="ex2.js"></script>
</body>
</html>
```

JS :

```
nmbr = prompt("Enter a number between 1 and 5 : ");
while((!Number.isInteger(parseInt(nmbr))) || nmbr<1 || nmbr>5)
{
    alert("Invalid Input!");
    nmbr = prompt("Enter a valid number between 1 and 5 : ");
}

rndm = rndmint(1,5);

if(nmbr == rndm)
{
    alert("Good Work!\nYes, the number is " + rndm);
}
else
{
    alert("Not matched!\nThe number is " + rndm);
```

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```
}


function rndmint(min, max)
{
    return Math.floor(Math.random() * (max+1 - min) ) + min;
}
```

Output :

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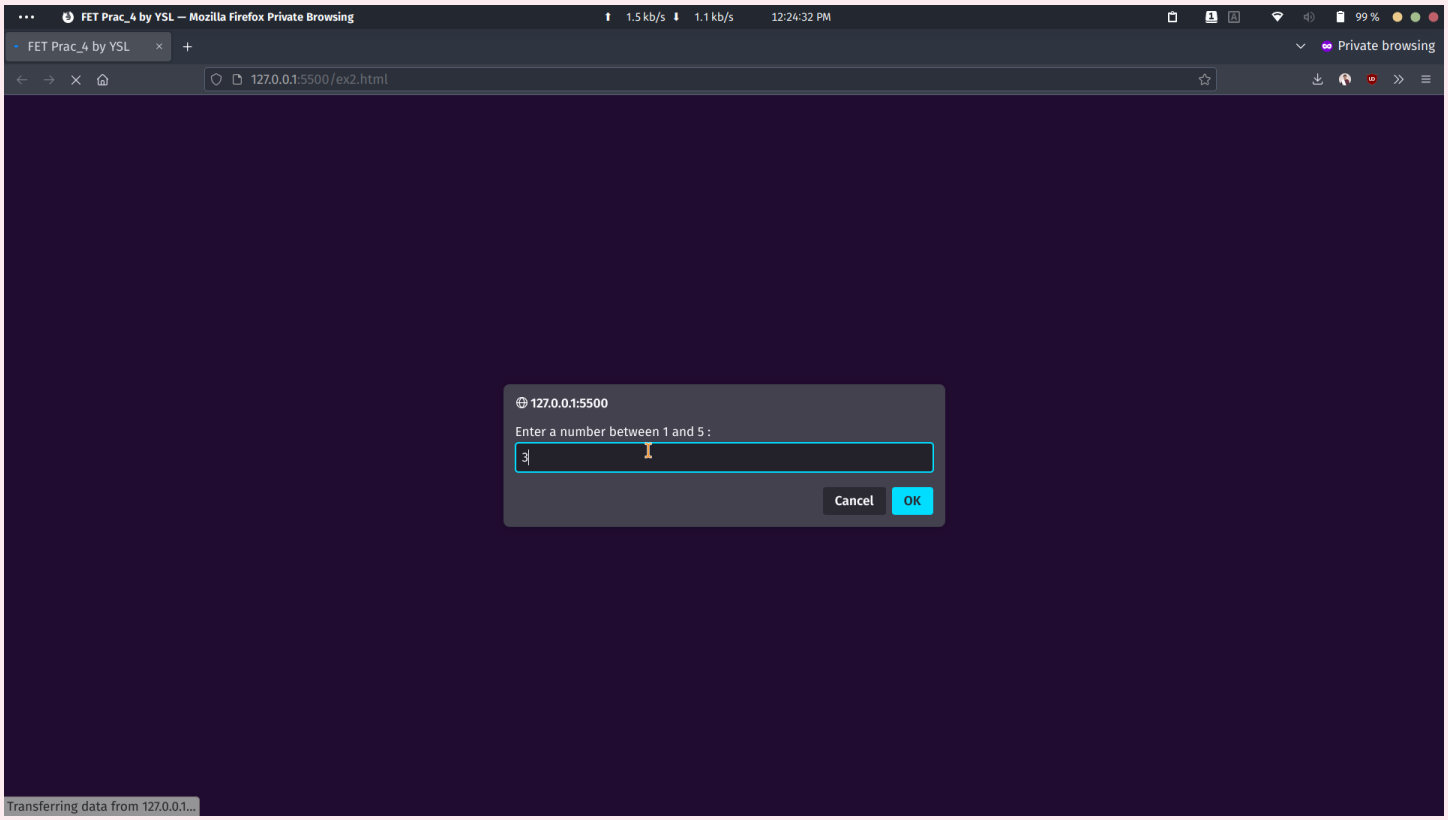

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