- 4) Design a HTML having a text box and four buttons viz Factorial, Fibonacci, Prime, and Palindrome. When a button is pressed an appropriate javascript function should be called to display
- a. Factorial of that number
- b. Fibonacci series up to that number
- c. Prime numbers up to that number
- d. Is it palindrome or not

## Program:

```
<html>
<head>
<title>functions</title>
<style>
</style>
</head>
<body>
Enter a number : <input type="number" name="num" id="num"><br><br><br>
<button type="button" onclick="fact()">Factorial/button> &nbsp
<button type="button" onclick="fib()">Fibonacci</button> &nbsp
<button type="button" onclick="prime()">Prime</button> &nbsp
<button type="button" onclick="palin()">Palindrome</button> &nbsp <br/>br>
<script>
function fact(){
let n = document.getElementById("num").value;
let f=1;
for (let i = 1; i \le n; i++) {
f *= i;
document.getElementById("res").innerHTML = f;
function fib(){
```

```
let n = document.getElementById("num").value;
let f0 = 0;
let f1 = 1;
let fn = f0+f1;
let str = "0 1"
while(fn<=n){
str += " "+fn;
f0 = f1;
f1 = fn;
fn = f0+f1;
document.getElementById("res").innerHTML = str;
function prime(){
let n = document.getElementById("num").value;
let str = "";
for(let m=2;m<=n;m++)
let c=0;
for (let i=2; i<=m/2; i++){
if (m\% i == 0){
c+=1;
if (c==0){
str += m+" ";
}
document.getElementById("res").innerHTML = str;
```

```
Experiment no:4
Roll no:
function palin(){
let n = document.getElementById("num").value;
let t = n;
let s=0;
let r=0;
while(n>0)
{
r=n%10;
s=(s*10)+r;
n=(n/10)>>0;
if(s==t)
document.getElementById("res").innerHTML = "True";\\
}
else{
document.getElementById("res").innerHTML = "False";
}
</script>
</body>
</html>
```

Page no:

## **Output:**



Type here to search



Activate Windows
Go to Settings to activate Windows.



Activate Windows
Go to Settings to activate Windows.



₩ P Type here to search

Activate Windows
Go to Settings to activate Windows.

