

## Experiment no 03

### Code:

```
// npm install prompt-sync
const prompt = require("prompt-sync")();

function reverseString(str){
    let newstr="";
    for(let i=str.length-1;i>=0;i--){
        newstr+=str[i];
    }
    return newstr;
}
const str=prompt("Enter a string:");
const result=reverseString(str);
console.log(result);

const string="Mr Red has a red house and red car";
const newString=string.replace('red','blue');
//replace using RegEx
const s1="Mr Red has a red house and red car"
const regex=/red/g;

const new_str=s1.replace(regex,'blue');
console.log(newString);
console.log(new_str);

//palindrome
function palindrome(s){
    const len=s.length;
    for(let i=0;i<len/2;i++){
        if(s[i]!==s[len-1-i]){
            return 'It is not a palindrome';
        }
    }
    return 'it is a palindrome';
}

const s2=prompt('Enter a String:');
const value=palindrome(s2);
console.log(value);
```

### Output:

```
Enter a string:hello
olleh
Mr Red has a blue house and red car
Mr Red has a blue house and blue car
Enter a String:hello
```

It is not a palindrome