

Que 1):Program on Palindrome number in nodejs

ANS:

```
var num=121;

var no=num;

var rev=0;

while(num>0){

    var rem=num%10;

    rev=rev*10+rem;

    num=num/10;

}if(rev==no){

    console.log('The given no is Palindrome no..');

}else{

    console.log('Not Palindrome');

}
```

Que):Program on Reverse program in nodejs

ANS:

```
var num=121;

var no=num;

var rev=0;

while(num>0){

    var rem=num%10;

    rev=rev*10+rem;

    num=num/10;

}
```

```
console.log(rev);
```

Que):Program on Factorial in nodejs.

ANS:

```
var no=4

var fact=1;

for(let i=1;i<=no;i++){

    fact=fact*i;

}

console.log(fact);
```

Que): Program on Palindrome String in nodejs

ANS:

```
function isPalindrome(str) {

    // Remove non-alphanumeric characters and convert to lowercase

    const cleanStr = str.replace(/^[^a-zA-Z0-9]/g, "").toLowerCase();

    let isPalindrome = true;

    // Use a for loop to iterate through each character in the first half of the string

    for (let i = 0; i < Math.floor(cleanStr.length / 2); i++) {

        const char = cleanStr[i];

        const oppositeChar = cleanStr[cleanStr.length - 1 - i];

        // If characters don't match, set isPalindrome to false

        if (char !== oppositeChar) {
```

```

        isPalindrome = false;

        break; // No need to continue checking once a mismatch is found
    }

}

return isPalindrome;
}

// Example usage:

const inputString = "A man, a plan, a canal, Panama!";

const result = isPalindrome(inputString);

if (result) {
    console.log(`${inputString} is a palindrome.`);
} else {
    console.log(`${inputString} is not a palindrome.`);
}

```

Que):Patterns program in nodejs

ANS:

```

function printRightAngledTriangle(height) {
    for (let i = 1; i <= height; i++) {
        let row = "";

        for (let j = 1; j <= i; j++) {
            row += '* ';
        }

        console.log(row);
    }
}

```

```
}
```

```
// Example usage:
```

```
const rightTriangleHeight = 5;
```

```
printRightAngledTriangle(rightTriangleHeight);
```