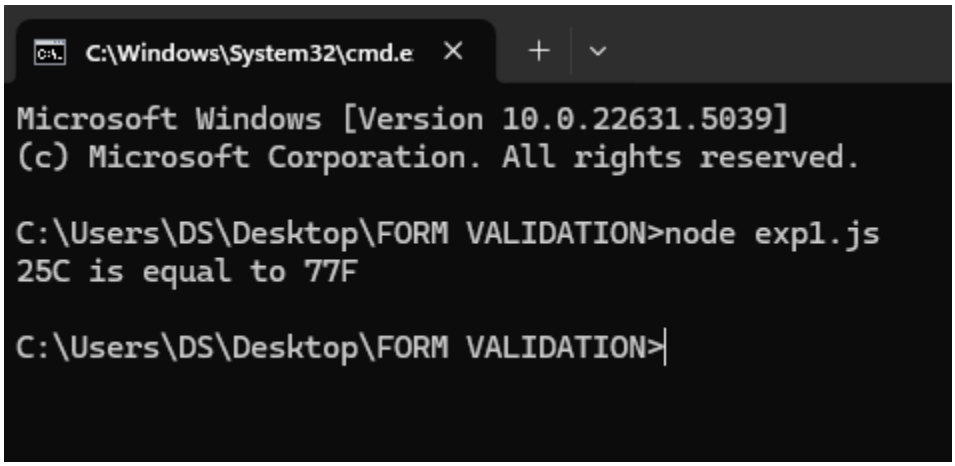
Experiment no -3

1.**Code**

```
function convertTemperature(celsius){
return (celsius * 9/5) + 32;
}
let currentCelsius=25;
let fahrenheit=convertTemperature(currentCelsius);
console.log(currentCelsius + "C is equal to " + fahrenheit +"F");
```

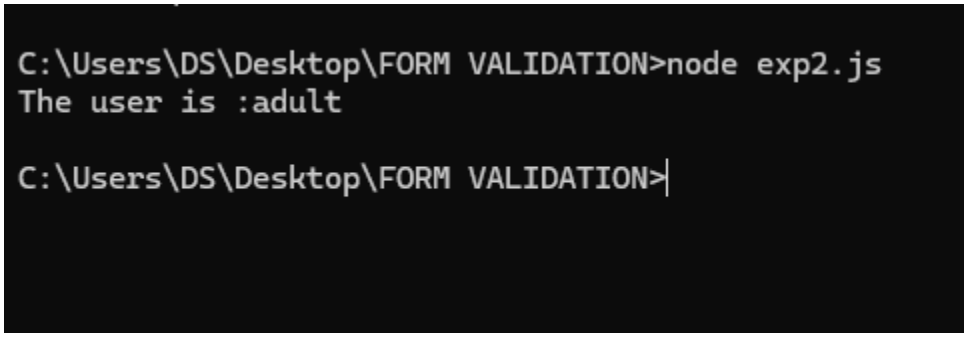
Output:



2.Code

```
function verifyAge(age){
return age>=18 ? "adult ":"minor";
}
let userAge=21;
let verificationResult=verifyAge(userAge);
console.log("The user is :" + verificationResult);
```

Output:



3.Code

```
function calculationDiscount(price,discountPercentage){
return price - (price * discountPercentage / 100);
}
let originalPrice=100;
let discount=20;
```

```
let discountedPrice=calculationDiscount(originalPrice,discount);
console.log("Original Price : $" + originalPrice +", Discounted price: $"+ discountedPrice);
```

Output:

```
C:\Users\DS\Desktop\FORM VALIDATION>node exp3.js
Original Price : $100, Discounted price: $80

C:\Users\DS\Desktop\FORM VALIDATION>
```

4:Using Arrow Function

```
let verifyAge= (age)=> age>=18 ? "Adult" : "Minor";
console.log(verifyAge(17));
```

Output:

```
C:\Windows\System32\cmd.e
Microsoft Windows [Version 10.0.22631.5039]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DS\Desktop\FORM VALIDATION>node arrow1.js
Minor

C:\Users\DS\Desktop\FORM VALIDATION>
```

5.Using Anonymous function

```
let convertTemperature=function(celsius){
return (celsius * 9/5) + 32;
}
let currentCelsius=25;
let fahrenheit=convertTemperature(currentCelsius);
console.log(currentCelsius + "C is equal to " + fahrenheit +"F");
```

Output:

```
C:\Users\DS\Desktop\FORM VALIDATION>node exp1.js
25C is equal to 77F

C:\Users\DS\Desktop\FORM VALIDATION>
```

6.Using Generator function

```
function*calculativeDiscount(price,discountPercentage){
yield price - (price * discountPercentage / 100);
}
let originalPrice=100;
let discount=20;
```

```
let generator=calculativeDiscount(originalPrice,discount);
let discountedPrice=generator.next().value;
console.log("Original Price : $" + originalPrice +", Discounted price: $"+ discountedPrice);
```

Output:

```
C:\Users\DS\Desktop\FORM VALIDATION>node exp3.js
Original Price : $100, Discounted price: $80

C:\Users\DS\Desktop\FORM VALIDATION>
```

7.Using rest parameter

```
function verifyAge(...ages) {
  return ages.map(age => age >= 18 ? "adult" : "minor");
}
let results = verifyAge(21, 15);
console.log(results);
```

Output:

```
C:\Users\DS\Desktop\FORM VALIDATION>node EXP9.JS
[ 'adult', 'minor' ]

C:\Users\DS\Desktop\FORM VALIDATION>
```

8. Using Default parameter

```
function verifyAge(age=15) {
  return ( age >= 18 ? "adult" : "minor");
}
let results = verifyAge();
console.log(results);
```

Output:

```
C:\Users\DS\Desktop\FORM VALIDATION>node EXP9.JS
minor

C:\Users\DS\Desktop\FORM VALIDATION>
```