

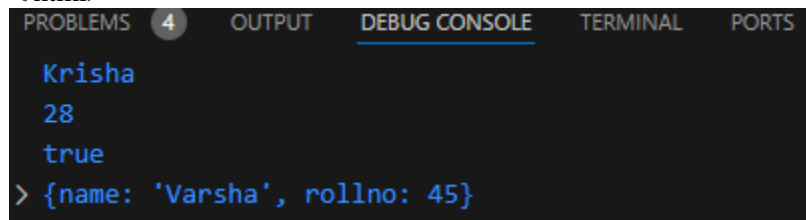
Roll no: 717822P128

Name: Krisha C S

Task 21:

Create variables of different data types (e.g., string, number, boolean, null, undefined, object)

```
<html>
  <head>
    <title>Task 21</title>
  </head>
  <body>
    <script>
      let name = "Krisha";
      let rollno = 28;
      let state = true;
      let user={
        name: "Varsha",
        rollno: 45
      };
      console.log(name);
      console.log(rollno);
      console.log(state);
      console.log(user);
    </script>
  </body>
</html>
```



Task 22:

Use the typeof operator to determine the type of various variables.

```
<html>
  <head>
    <title>Task 22</title>
  </head>
  <body>
    <script>
      let name = "Krisha";
      let rollno = 28;
      let state = true;
      let user={
        name: "Varsha",
        rollno: 45
      };
      console.log(typeof(name));
      console.log(typeof(rollno));
      console.log(typeof(state));
      console.log(typeof(user));
    </script>
  </body>
</html>
```

```
PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS
string
number
boolean
object
```

Task 23:

Declare a symbol and print its type

```
<html>
  <head>
    <title>Task 23</title>
  </head>
  <body>
    <script>
      let sym = Symbol();
      console.log(typeof(sym));
    </script>
  </body>
</html>
```

```
PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS
symbol
```

Task 24:

Assign the value null to a variable and check its type using typeof.

```
<html>
  <head>
    <title>Task 24</title>
  </head>
  <body>
    <script>
      var num = null;
      console.log(typeof(num));
    </script>
  </body>
</html>
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
object
```

Task 25:

Differentiate between declaring a variable using var and let in terms of scope.

- Variables declared by **let** are only available inside the block where they're defined.
- Variables declared by **var** are available throughout the function in which they're declared.

Task 26:

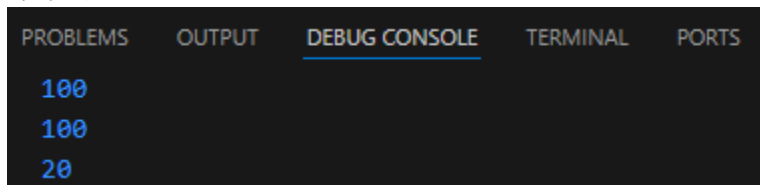
Convert a string to a number using both implicit and explicit conversion.

```
<html>
  <head>
    <title>Task 26</title>
  </head>
  <body>
```

```

<script>
  var num = "100";
  var num1 = 20;
  console.log(+num);
  console.log(Number(num));
  console.log(num1.toString());
</script>
</body>
</html>

```



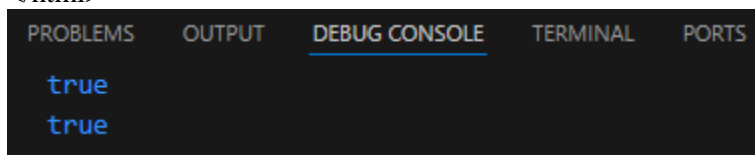
Task 27:

Convert a boolean to a string and vice versa.

```

<html>
  <head>
    <title>Task 27</title>
  </head>
  <body>
    <script>
      let bool = true;
      let s = "true";
      console.log(bool.toString());
      console.log(Boolean(s));
    </script>
  </body>
</html>

```



Task 28:

Practice basic arithmetic operators (+, -, *, /, %).

```

<html>
  <head>
    <title>Task 28</title>
  </head>
  <body>
    <script>
      let a = 6;
      let b = 3;
      console.log(a+b);
      console.log(a-b);
      console.log(a*b);
      console.log(a/b);
    </script>
  </body>
</html>

```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
9
3
18
2
```

Task 29:

Use the ++ and -- operators on a numeric variable.

```
<html>
  <head>
    <title>Task 24</title>
  </head>
  <body>
    <script>
      var num = 20;
      console.log(num++);
      console.log(num--);
    </script>
  </body>
</html>
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
20
21
```

Task 30:

Explore the precedence of operators by combining multiple operators in a single expression.

```
<html>
  <head>
    <title>Task 30</title>
  </head>
  <body>
    <script>
      var n1= 20;
      var n2= 30;
      var n3= 40;
      var n4= 40;
      console.log(n1+ n2 - n3 * n4);

    </script>
  </body>
</html>
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
-1550
```

Task 31:

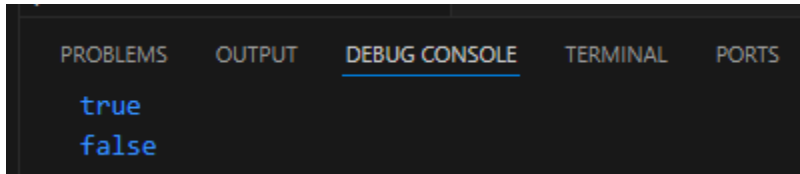
Compare two numbers using relational operators (>, <, >=, <=).

```
<html>
  <head>
    <title>Task 31</title>
  </head>
  <body>
    <script>
```

```

    var n1= 20;
    var n2= 30;
    console.log(n1<n2);
    console.log(n1==n2);
</script>
</body>
</html>

```



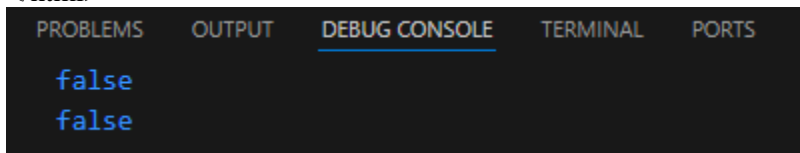
Task 32:

Use equality () and strict equality (==) operators to compare different data types and note the differences.

```

<html>
<head>
  <title>Task 32</title>
</head>
<body>
  <script>
    var n1= 20;
    var n2= 30;
    console.log(n1==n2);
    console.log(n1===n2);
  </script>
</body>
</html>

```



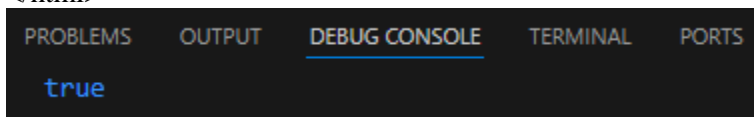
Task 33:

Compare two strings lexicographically.

```

<html>
<head>
  <title>Task 33</title>
</head>
<body>
  <script>
    var n1= "Apple";
    var n2= "Banana";
    console.log(n1<n2);
  </script>
</body>
</html>

```



Task 34:

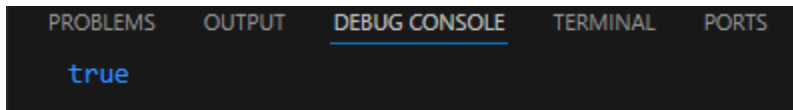
Use the inequality (!=) and strict inequality (!==) operators to compare values.

```

<html>
<head>

```

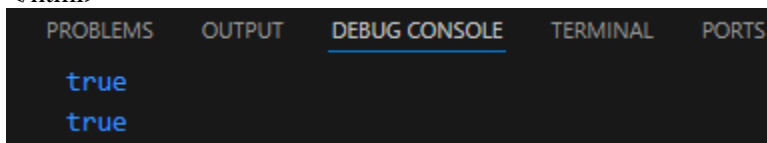
```
<title>Task 32</title>
</head>
<body>
  <script>
    var n1= 20;
    var n2= 30;
    console.log(n1!=n2);
    console.log(n1!==n2);
  </script>
</body>
</html>
```



Task 35:

Compare null and undefined using both == and ===.

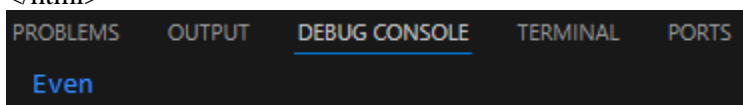
```
<html>
<head>
  <title>Task 35</title>
</head>
<body>
  <script>
    var s1 = null;
    var s2 = undefined;
    console.log(s1==s2);
    console.log(s1===s2);
  </script>
</body>
</html>
```



Task 36:

Write an if statement that checks if a number is even or odd.

```
<html>
<head>
  <title>Task 36</title>
</head>
<body>
  <script>
    var s = 50;
    if(s%2 == 0){
      console.log("Even");
    }
    else{
      console.log("Odd");
    }
  </script>
</body>
</html>
```



Task 37:

Use nested if statements to classify a number as negative, positive, or zero

```
<html>
  <head>
    <title>Task 36</title>
  </head>
  <body>
    <script>
      var s = 50;
      if(s==0){
        console.log("Zero");
      }
      else if( s>0){
        console.log("Positive");
      }
      else{
        console.log("Negative");
      }
    </script>
  </body>
</html>
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

Positive