



Practical 7

WAP to Implement String Decoder This
decodes strings like "3[a2[b]]" into
"abbabbabb".

```
function decodeString(s) {
```

```
  let stack = [];
```

```
  for (let char of s) {
```

```
    if (char !== ']') {
```

```
      stack.push(char);
```

```
    } else {
```

```
      let decodedString = "";
```

```
      while (stack[stack.length - 1] !== '[') {
```

```
        decodedString = stack.pop() + decodedString;
```

```
      }
```

```
      stack.pop();
```

```
      let k = "";
```

```
      while (stack.length && !isNaN
```

```
        (stack[stack.length - 1])) {
```

```
        k = stack.pop() + k;
```

```
      }
```

```
stack.push(decodedString.repeat  
    (parentInt[k])));  
}  
}  
return stack.join("");  
console.log(decodedString("3[a2[b]]"));
```

Output.

```
console.log(decodedString("3[a2[b]]"));  
abbabbabb
```