

Function in Javascript

Assignment Questions

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Q1. Create an arrow function called square that takes a number as an argument and returns its square. Use the arrow function to calculate the square of a given number and display the result.

Ans `let square = (x) => x*x;`

```
console.log(square(2));
```

OUTPUT |- 4

Q2. Create a JavaScript function called generateGreeting that takes a name as an argument and returns a personalized greeting message. Use this function to greet three different people.

Ans `function generategreeting(name) {`

```
    console.log(`namaste ${name} bhai`)
```

```
}
```

```
generategreeting("ram")
```

Q3. Create an IIFE (Immediately Invoked Function Expression) that calculates the square of a number and immediately displays the result.

Ans `(function suare(x) {`

```
    console.log(x*x);  
  
}) (2);
```

Q4. Write a JavaScript function called calculateTax that takes an income as an argument and returns the amount of tax to be paid. Use a closure to handle different tax rates based on income ranges. Test the function with various incomes.

Ans `function calculatetax(x) {`

```
    if(x>800000) {  
  
        let tax = (x*20)/100;  
  
        console.log(`you have to pay ${tax} as income tax`)  
  
    }  
  
    else{  
  
        let tax = (x*10)/100;  
  
        console.log(`you have to pay ${tax} as income tax`)  
  
    }  
  
}  
  
console.log(calculatetax(12000))
```

Q5. Write a JavaScript function called factorial that calculates the factorial of a non-negative integer using recursion. Test the function with different inputs.

Ans `function factorial(x) {`

```
    if(x==0) {  
  
        return 1  
  
    }  
  
    else{  
  
        return x*factorial(x-1)  
  
    }  
  
}  
  
console.log(factorial(7))
```

OUTPUT | - 5040

Q6. Write a JavaScript function called curry that takes a function as an argument and returns a curried version of that function. The curried function should accept arguments one at a time and return a new function until all arguments are provided. Then, it should execute the original function with all arguments. Test the curry function with a function that adds two numbers.

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