

```
    }
};

//create a modified fn with some additional logic
var modifiedFn = function() {
    //mark the element as visible
    t.appeared = true;
    //is this supposed to happen only once?
    if (settings.one) {
```

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Assignments -

02-first-java.md

1. Write a program to print whether a number is even or odd, also take input from the user.

```
import java.util.Scanner;

public class demo {
    public static void main(String[] args) {
        System.out.println("enter the number:");
        Scanner sc = new Scanner(System.in);
        int num = sc.nextInt();
        sc.close();
        if (num %2 == 0){
            System.out.println(num + " is an even number !");
        }
        else{
            System.out.println(num + " is an odd number !");
        }
    }
}
```

2. Take name as input and print a greeting message for that particular name.

```
import java.util.Scanner;

public class demo {
    public static void main(String[] args) {
        System.out.println("Enter Your Name:");
        Scanner sc = new Scanner(System.in);
        String name = sc.nextLine();
        sc.close();
        System.out.println(" Good Morning ! " + name);
    }
}
```

3. Write a program to input principal, time, and rate (P, T, R) from the user and find Simple Interest.

```
import java.util.Scanner;

public class demo {
    public static void main(String[] args) {
        System.out.println("Enter the principal amount , interest rate and year :");
        Scanner sc = new Scanner(System.in);
        System.out.println("principal amount : ");
        int p = sc.nextInt();
        System.out.println(" interest rate: ");
        float i = sc.nextFloat();
        System.out.println("years : ");
        int y = sc.nextInt();
        sc.close();
        float SI = (p*i*y)/100;
        System.out.println("The simple interest on " + p + " with interest rate " + i + " after " + y + " years "+ "will be "+ SI);
    }
}
```

4. Take in two numbers and an operator (+, -, *, /) and calculate the value. (Use if conditions)

```
import java.util.Scanner;
public class demo{
public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.println("input the two numbers :");
    double n1 = sc.nextDouble();
    double n2 = sc.nextDouble();
    System.out.println("Enter the function you want to perform -> + , - ,*,/ : ");
    char s = sc.next().charAt(0);
    sc.close();

    double result = 0;
    if (s=='+'){
        result = n1+n2 ;
    }
    else if (s == '-'){
        result = n1-n2;
    }
    else if (s == '*'){
        result = n1*n2;
    }
    else if (s == '/'){
        result = n1/n2;
    }
    System.out.println("The result of "+ n1 + s + n2 + " is : " + result);
}
}
```

5. Take 2 numbers as input and print the largest number.

```
import java.util.Scanner;
public class demo{
public static void main(String[] args) {
```

```

Scanner sc = new Scanner(System.in);
System.out.println("input the two numbers :");
double n1 = sc.nextDouble();
double n2 = sc.nextDouble();
sc.close();
if (n1>n2){
    System.out.println("The bigger number is : "+ n1);
}
else{
    System.out.println("The bigger number is : "+ n2);
}
}

```

6. Input currency in rupees and output in USD.

```

import java.util.Scanner;
public class demo{
public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter ruppees : ");
    double rs = sc.nextDouble();
    sc.close();
    double usd = rs* 0.012;
    System.out.println(" The value of inr " + rs + " is $" + usd );
}
}

```

7. To calculate Fibonacci Series up to n numbers.

6. To calculate Fibonacci Series up to n numbers.

```

import java.util.Scanner;
public class demo
{
public static void main(String args[])
{
Scanner sc = new Scanner(System.in);
int sum = 0, n;
int n1 = 0;
int n2 = 1;
System.out.println("Enter the nth value: ");
n = sc.nextInt();
sc.close();
System.out.println("Fibonacci series: ");
while(sum <= n)
{
System.out.print(sum + " ");
n1 = n2; // swap elements
n2 = sum;
sum = n1 + n2; // next term is the sum of the last two terms
}
}
}

```

8. To find out whether the given String is Palindrome or not.

```

import java.util.Scanner;
public class demo
{
public static void main(String args[])
{
System.out.println("enter the word: ");
Scanner sc = new Scanner(System.in);
String s = sc.next();
sc.close();
int i = 0;
int flag=0;
int j= s.length()-1;
while(i<j){
    if (s.charAt(i)==s.charAt(j)){
        flag = 1 ;
    }
    else{
        break;
    }
    i++;
    j--;
}
if (flag == 1){
    System.out.println(s + " is a palindrome.");
}
if (flag==0){
    System.out.println(s + " is not a palindrome.");
}
}
}

```

9. To find Armstrong Number between two given number

```

import java.util.Scanner;
public class demo
{
public static void main(String args[])
{
System.out.println("enter the number: ");
Scanner sc = new Scanner(System.in);
int num = sc.nextInt();
sc.close();
int count = 0; // is used for counting the number of digits
int n = num; // is used to compare the arm with the entered number
int temp = num; // is used to get the individual digits
while(num>0){
    num/=10;
    count++;
}
int digit = 0;
int arm = 0;
while(count>0){
    digit= temp%10;
    arm = arm + (digit)*(digit)*(digit); //calculating sum of cubes of the individual numbers
    // System.out.println("the number at " + count + " position is "+ digit);
    temp/=10;
    count--;
}
System.out.println(" Sum of cubes of individual digits: " +arm);
if (n == arm){
    System.out.println(n + " is an armstrong number !");
}
else{
    System.out.println(n + " is not an armstrong number !");
}
}

```

