

Java top listed programs

1. Write a java program Check even or odd?

```
public static void main(String[] args) {  
    System.out.println("enter your number: ");  
    Scanner s = new Scanner(System.in);  
    int num = s.nextInt();  
    if (num % 2 == 0) {  
        System.out.println("given number is even.");  
    } else {  
        System.out.println("given number is odd.");  
    }  
}
```

2. Write a java program Print the even and odd numbers between 1 to 100?

```
public static void main(String[] args) {  
    System.out.println("enter your number :");  
    Scanner s = new Scanner(System.in);  
    int num=s.nextInt();  
    System.out.println("even numbers :");  
    for(int i=0; i<=num; i++) {  
        if(i%2==0)  
            System.out.println(i);  
    }  
    System.out.println("odd numbers :");  
    for(int i=0; i<=num; i++) {  
        if(i%2==1)  
            System.out.println(i);  
    }  
}
```

3. Wajp Sum of even and odd numbers?

```
public static void main(String[] args) {  
    System.out.println("enter your number :");  
    Scanner s = new Scanner(System.in);  
    int num=s.nextInt();  
    int sum1 = 0;  
    for (int i = 0; i <= num; i++) {  
        if (i % 2 == 0) {  
            System.out.println(i);  
            sum1 = sum1 + i;  
        }  
    }  
    System.out.println("sum of even numbers :" + sum1);  
    int sum2 = 0;  
    for (int i = 0; i <= num; i++) {  
        if (i % 2 == 1) {  
            System.out.println(i);  
            sum2 = sum2 + i;  
        }  
    }  
    System.out.println("sum of odd numbers :" + sum2);  
}
```

4. WAJP Count of even and odd numbers?

```
public static void main (String [] args) {  
    System.out.println("enter your number:");  
    Scanner s = new Scanner (System.in);  
    int num=s.nextInt ();  
    int count1 = 0;
```

my GitHub -

<https://github.com/BobbiliT/JavaPracticeProject.git>

```

        for (int i = 0; i <= num; i++) {
            if (i % 2 == 0) {
                System.out.println(i);
                count1++;
            }
        }
        System.out.println("count of even numbers: " + count1);
        int count2 = 0;
        for (int i = 0; i <= num; i++) {
            if (i % 2 == 1) {
                System.out.println(i);
                count2++;
            }
        }
        System.out.println("count of odd numbers: " + count2);
    }
}

```

5. Write a java program Sum of the digits?

```

public static void main (String [] args) {
    System.out.println("enter your number: ");
    Scanner s = new Scanner (System.in);
    int num=s.nextInt();
    while (num!= 0) {
        sum = sum + num % 10;
        num = num / 10;
    }
    System.out.println(sum);
}

```

6. WAJP count the total digits?

```

public static void main (String [] args) {
    System.out.println("enter your number: ");
    Scanner s = new Scanner (System.in);
    int num=s.nextInt();
    int count = 0;
    while (num!= 0) {
        num = num / 10;
        count++;
    }
    System.out.println(count);
}

```

7. WAPJ factorial of the given numbers?

```

public static void main(String[] args) {
    System.out.println("enter your number:");
    Scanner s = new Scanner(System.in);
    int fact = s.nextInt();
    for (int i = 1; i < 5; i++) {
        fact = fact * i;
    }
    System.out.println(fact);
}

```

8. WAJP swap two numbers without 3rd variable?

```

public static void main (String [] args) {
    System.out.println("enter your number:");
    Scanner s = new Scanner (System.in);
    int a = s.nextInt();
    int b = s.nextInt();
    System.out.println("Before swapping number " + "a =" + a + "b =" + b);
    a = a + b;
    b = a - b;
    a = a - b;
    System.out.println("Before swapping number " + "a =" + a + "b =" + b);
}

```

9. WAJP swap two numbers with 3rd variable?

```

public static void main (String [] args) {
}

```

```

System.out.println("enter your number:");
Scanner s = new Scanner(System.in);
int a = s.nextInt();
int b = s.nextInt();
System.out.println("Before swapping number " + "a =" + a + "b =" + b);
int temp = a;
a = b;
b = temp;
System.out.println("After swapping number " + "a =" + a + "b =" + b);
}

10. WAJP reverse the given string?
public static void main (String [] args) {
System.out.println("enter your name:");
Scanner s = new Scanner (System.in);
String name = s.nextLine();
String rev = "";
for (int i = name.length() - 1; i >= 0; i--) {
    rev = rev + name.charAt(i);
}
System.out.println("reverse name is:" + rev);
}

11. WAJP reverse the given number?
public static void main (String [] args) {
System.out.println("enter your number:");
Scanner s = new Scanner (System.in);
int num = s.nextInt();
int rev = 0;
while (num != 0) {
    rev = rev * 10 + num % 10;
    num = num / 10;
}
System.out.println("reverse number is:" + rev);
}

12. WAJP check the number is palindrome or not?
public static void main (String [] args) {
System.out.println("enter your name:");
Scanner s = new Scanner (System.in);
int num=s.nextInt();
int org_num=num;
int rev=0;
while(num!=0) {
    rev=rev*10+num%10;
    num=num/10;
}
if(org_num==rev) {
    System.out.println("number is palindrome.");
}
else {
    System.out.println("number is not palindrome.");
}
}

13. WAJP check the name is palindrome or not?
public static void main (String [] args) {
System.out.println("enter your name:");
Scanner s = new Scanner (System.in);
String name = s.nextLine();
String org_name = name;
String rev = "";
for (int i = name.length() - 1; i >= 0; i--) {
    rev = rev + name.charAt(i);
}
if (org_name.equals(rev)) {
    System.out.println("name is palindrome.");
} else {
    System.out.println("name is not palindroem.");
}
}

```

```

    }

14. WAJP print the palindrome numbers between and count?
public static void main (String [] args) {
    System.out.println("enter your numbers:");
    Scanner s= new Scanner(System.in);
    int num1=s.nextInt();
    int num2=s.nextInt();
    int count=0;
    for(int i=num1; i<num2; i++) {
        int num=i;
        int rev=0;
        while(num!=0) {
            rev=rev*10+num%10;
            num=num/10;
        }
        if(rev==i) {
            System.out.println(i);
        }
        if(rev==i) {
            count++;
        }
    }
    System.out.println("total number of palindromes: "+count);
}

15. WAJP count even and odd digits?
public static void main (String [] args) {
    System.out.println("enter your numbers :");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    int even = 0;
    int odd = 0;
    int count = 0;
    int rev = 0;
    while (num != 0) {
        rev = rev * 10 + num % 10;
        if (rev % 2 == 0) {
            even++;
        } else {
            odd++;
        }
        num = num / 10;
    }
    System.out.println("count even numbers: " + even);
    System.out.println("count odd numbers: " + odd);
}

16. WAJP print the large and small numbers?
public static void main (String [] args) {
    System.out.println("enter your values :");
    Scanner s = new Scanner(System.in);
    int a = s.nextInt();
    int b = s.nextInt();
    int c = s.nextInt();
    if (a > b == a > c) {
        System.out.println("a is largest number :" + a);
    } else if (b > a == b > c) {
        System.out.println("b is largest number :" + b);
    } else {
        System.out.println("c is largest number :" + c);
    }
    if (a < b == a < c) {
        System.out.println("a is smallest number :" + a);
    } else if (b < a == b < c) {
        System.out.println("b is smallest number :" + b);
    } else {

```

```

        System.out.println("c is smallest number :" + c);
    }
}

17. WAJP to the Fibonacci number serious?
public static void main (String [] args) {
    int num1 = 0;
    int num2 = 10;
    int sum = 0;
    for (int i = num1; i <= 10; i++) {
        sum = num1 + num2; // 30+50=80
        System.out.println(sum); // 10
        num1 = num2;
        num2 = sum;

    }
}

18. WAJP reverse each word of the given string?
public static void main (String [] args) {
    System.out.println("enter your input: ");
    Scanner s = new Scanner(System.in);
    String name = s.nextLine();
    String arr[] = name.split(" ");
    for (int i = 0; i < arr.length; i++) {
        System.out.print(arr[i] + " ");
    }
    System.out.println();
    for (int i = arr.length - 1; i >= 0; i--) {
        System.out.print(arr[i] + " ");
    }
}

19. WAJP reverse each letter of the given string?
public static void main (String [] args) {
    System.out.println("enter your input :");
    Scanner s = new Scanner(System.in);
    String name = s.nextLine();
    String arr[] = name.split("");
    for (int i = 0; i < arr.length; i++) {
        System.out.print(arr[i] + "");
    }
    System.out.println();
    for (int i = arr.length - 1; i >= 0; i--) {
        System.out.print(arr[i] + "");
    }
}

20. WAJP convert the first letter of each word into capital?
public static void main (String [] args) {
    System.out.println("enter your name :");
    Scanner s = new Scanner(System.in);
    String name = s.nextLine();
    String arr[] = name.split(" ");
    for (String ss : arr) {
        char firstletter = ss.charAt(0);
        char convert = Character.toUpperCase(firstletter);
        String sub = ss.substring(1);
        System.out.print(convert + sub + " ");
    }
}

21. WAJP check the given number prime or not?
public static void main (String [] args) {
    System.out.println("enter your number: ");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    int count = 0;
    if (num > 1) {
        for (int i = 1; i <= num; i++) {

```

```

        if (num % i == 0)
            count++;
    }
    if (count == 2) {
        System.out.println("is prime");
    } else {
        System.out.println("is not prime");
    }
} else {
    System.out.println("is not prime.");
}
}

```

22. WAJP print and count between prime numbers?

```

public static void main (String [] args) {
    System.out.println("enter your number :");
    Scanner s = new Scanner(System.in);
    int num1 = s.nextInt();
    int num2 = s.nextInt();
    for (int i = num1; i <= num2; i++) {
        int count = 0;
        for (int j = 1; j <= i; j++) {
            if (i % j == 0)
                count++;
        }
        if (count == 2) {
            System.out.println(i);
        }
    }
}

```

23. WAJP to print the random number?

```

public static void main (String [] args) {
    Random rand = new Random();
    int r = rand.nextInt(10);
    System.out.println("print random number: " + r);
}

```

24. WAJP sum of the given array?

```

public static void main (String [] args) {
    int arr [] = {1, 2, 3, 4, 5, 6, 7};
    int sum = 0;
    for (int i = 0; i < arr.length; i++) {
        sum = sum + arr[i];
    }
    System.out.println("sum of array is :" + sum);
}

```

25. WAJP print the even and odd numbers form array?

```

public static void main (String [] args) {
    int arr[] = {1, 2, 3, 4, 5, 6 };
    System.out.println("print even numbers form an array :");
    for (int i = 0; i < arr.length; i++) {
        if (arr[i] % 2 == 0)
            System.out.println(arr[i]);
    }
    System.out.println("print odd numbers form an array :");
    for (int i = 0; i < arr.length; i++) {
        if (arr[i] % 2 == 1)
            System.out.println(arr[i]);
    }
}

```

26. WAJP to check the array is equal or not?

```

public static void main (String [] args) {
    int a[] = { 1, 2, 3, 4, 5, 6 };
    int b[] = { 1, 2, 3, 4, 5, 6 };
    boolean result = true;
    if (a.length == b.length) {
        for (int i = 0; i < a.length; i++) {

```

```

        if (a[i]!= b[i])
            System.out.println("array is equal :" + a[i]);
            result = true;
    } else {
        result = false;
    }
    if (result == true) {
        System.out.println("array is equal");
    } else {
        System.out.println("array is not equal");
    }
}

```

27. WAJP print the unique numbers from an Array?

```

public static void main (String [] args) {
    int arr[] = {1, 2, 3, 4, 5, 6, 7, 3, 2, 5, 7, 6 };
    Tree Set<Integer> un = new Tree Set<Integer> ();
    for (int i = 0; i < arr. length; i++) {
        un.add(arr[i]);
    }
    System.out.println(un);
}

```

28. WAJP print the missing number from an array?

```

public static void main (String [] args) {
    int arr [] = {1, 2, 3, 5, 6, 7, 8, 9};
    int sum1 = 0;
    for (int i = 0; i < arr. length; i++) {
        sum1 = sum1 + arr[i];
    }
    System.out.println("sum of array is: " + sum1);

    int sum2 = 0;
    for (int i = 0; i <= 9; i++) {
        sum2 = sum2 + i;
    }
    System.out.println("range of array is: " + sum2);

    int sum = 0;
    sum = sum2 - sum1;
    System.out.println("missing number of arrays: " + sum);
}

```

29. WAJP find maximum and minimum numbers and its index?

```

public static void main (String [] args) {
    int arr [] = {1, 2, 3, 4, 5, 6, 7, 8};
    int max = arr[0];
    int maxindex = 0;
    for (int i = 0; i < arr.length; i++) {
        if (arr[i] > max) {
            max = arr[i];
            maxindex = i;
        }
    }
    System.out.println("max number from an array: " + max);
    System.out.println("max number index from an array: " + maxindex);

    int min = arr [0];
    int minindex = 0;
    for (int i = 0; i < arr.length; i++) {
        if (arr[i] < min) {
            min = arr[i];
            minindex = i;
        }
    }
    System.out.println("min number from an array: " + min);
    System.out.println("min number index from an array: " + minindex);
}

```

```

}

30. WAJP find the duplicate elements from an array?
public static void main(String[] args) {
    int arr[] = {1, 2, 3, 4, 5, 3};
    boolean b = false;
    for (int i = 0; i < arr.length; i++) {
        for (int j = 1 + i; j < arr.length; j++) {
            if (arr[i] == arr[j]) {
                System.out.println("duplicate element found: " + arr[i]);
                b = true;
            }
        }
    }
    if (b == false) {
        System.out.println("duplicate is not found.");
    }
}

31. WAJP remove duplicate elements from an array?
public static void main (String [] args) {
    int[] arr = {1, 2, 3, 4, 5, 6, 1, 2, 3, 4, 5, 6};
    Set<Integer> s = new LinkedHashSet<Integer>();
    for (int i = 0; i < arr.length; i++) {
        s.add(arr[i]);
    }
    for (Integer arrr: s) {
        System.out.println(arrr);
    }
    System.out.println(s);
}

32. WAJP to search the given element from an array?
public static void main (String [] args) {
    int arr [] = {1, 2, 3, 4, 5, 6, 7};
    System.out.println("enter your element: ");
    Scanner s = new Scanner(System.in);
    int ser_ele = s.nextInt();
    boolean b = false;
    for (int i = 0; i < arr.length; i++) {
        if (ser_ele == arr[i]) {
            System.out.println("search element is found: " + i);
            b = true;
        }
    }
    if (b == false) {
        System.out.println("search element is not found.");
    }
}

33. WAJP bubble shooting?
public static void main (String [] args) {
    int a[] = {90, 40, 50, 60, 30, 20, 10, 70, 80};
    System.out.println("array before shorting: " + Arrays.toString(a));
    for (int i = 0; i < a.length - 1; i++) {
        for (int j = i+1; j < a.length - 1; j++) {
            if (a[i] > a[j]) {
                int temp = a[i];
                a[i] = a[j];
                a[j] = temp;
            }
        }
    }
    System.out.println("array after shorting: " + Arrays.toString(a));
}

34. WAJP to count the single letter from given string?
public static void main (String [] args) {
    String s = "tejesh";
}

```

```

        int count=0;
        for(char ch :s.toCharArray()) {
            if(ch=='t') {
                count++;
            }
        }
        System.out.println("total count occurrence: "+count);
    }
}

```

35. WAJP to count the upper- and lower-case alphabet?

```

public static void main (String [] args) {
    System.out.println("enter your name: ");
    Scanner s = new Scanner(System.in);
    String name = s.nextLine();
    name = name.replace(" ", "");
    int upper = 0;
    int lower = 0;
    for (int i = 0; i < name.length(); i++) {
        char ch = name.charAt(i);
        if (ch >= 'A' && ch <= 'Z') {
            upper++;
        } else {
            lower++;
        }
    }
    System.out.println("upper letters: " + upper);
    System.out.println("lower letters: " + lower);
}
}

```

36. WAJP to print name occurrence of given string?

```

public static void main (String [] args) {
    System.out.println("enter your name: ");
    Scanner sc = new Scanner(System.in);
    String s = sc.nextLine();
    s = s.replaceAll(" ", "");
    HashMap<Character, Integer> hs = new HashMap<Character, Integer>();
    for (Character c: s.toCharArray()) {
        if (hs.containsKey(c)) {
            hs.put(c, hs.get(c) + 1);
        } else {
            hs.put(c, 1);
        }
    }
    System.out.println(hs);
}
}

```

37. WAJP to check the number is Amstrong or not?

```

public static void main (String [] args) {
    System.out.println("enter your number: ");
    Scanner s = new Scanner (System.in);
    int num = s.nextInt ();
    int org_num = num;
    int sum = 0;
    while (num > 1) {
        int i = 0;
        i = num % 10;
        sum = sum + i * i * i;
        num = num / 10;
    }
    if (org_num == sum) {
        System.out.println("number is amstrong.");
    } else {
        System.out.println("number is not amstrong.");
    }
}
}

```

38. WAJP to check the name is anagram or not?

```

public static void main (String [] args) {
}
}

```

```

System.out.println("enter your names: ");
Scanner s = new Scanner(System.in);
String a = s.nextLine();
String b = s.nextLine();
char x[] = a.toCharArray();
char y[] = b.toCharArray();
Arrays.sort(x);
Arrays.sort(y);
boolean result = Arrays.equals(x, y);
if (result == true) {
    System.out.println("name is anagram.");
} else {
    System.out.println("name is not anagram.");
}
}

```

39. WAJP to convert the lower case to upper case?

```

public static void main (String [] args) {
System.out.println("enter your lower alphabet: ");
Scanner s = new Scanner(System.in);
String name = s.nextLine();
char x[] = name.toCharArray();
int size = name.length();
int i = 0;
while (i != size) {
    x[i] = (char) (x[i] - 32);
    i++;
}
System.out.println(name);
System.out.println(x);
}

```

40. WAJP to convert the upper case to lower case?

```

public static void main (String [] args) {
System.out.println("enter your lower alphabet: ");
Scanner s = new Scanner(System.in);
String name = s.nextLine();
char x[] = name.toCharArray();
int size = name.length();
int i = 0;
while (i!= size) {
    x[i] = (char) (x[i] - 32);
    i++;
}
System.out.println(name);
System.out.println(x);
}

```

41. WAJP to convert the first letter into capital from given string?

```

public static void main (String [] args) {
System.out.println("enter your name: ");
Scanner s = new Scanner(System.in);
String name = s.nextLine();
String space = "";
String arr[] = name.split(" ");
for (String ss : arr) {
    char firstletter = ss.charAt(0);
    char convert = Character.toUpperCase(firstletter);
    String sub = ss.substring(1);
    space = space + convert + sub + " ";
}
System.out.println(space);
}

```

42. WAJP to count the small and capital and digits and special character form given string?

```

public static void main (String [] args) {
System.out.println("enter your name: ");
Scanner s = new Scanner(System.in);
String name = s.nextLine();

```

```

int sl = 0; int cp = 0; int nu = 0; int sp = 0;
String small = ""; String capital = ""; String digits = ""; String specialchar = "";
for (int i = 0; i < name.length(); i++) {
    char ch = name.charAt(i);
    if (Character.isLowerCase(ch)) {
        sl++;
        small = small + ch;
    } else if (Character.isUpperCase(ch)) {
        cp++;
        capital = capital + ch;
    } else if (Character.isDigit(ch)) {
        digits = digits + ch;
    } else {
        sp++;
        specialchar = specialchar + ch;
    }
}
System.out.println(name);
System.out.println("small count -> " + sl + " small letters -> " + small);
System.out.println("capital count -> " + cp + " captial letters -> " + captial);
System.out.println("digits count -> " + nu + " digits letters -> " + digits);
System.out.println("special character count -> " + sp + " special character
letters -> " + specialchar);
}

```

43. WAJP to count the vowels form given string?

```

public static void main (String [] args) {
System.out.println("enter your name: ");
Scanner s = new Scanner(System.in);
String name = s.nextLine();
char ch[] = name.toCharArray();
int count = 0;
for (int i = 0; i < name.length(); i++) {
    char c = ch[i];
    if (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u') {
        count++;
    }
}
System.out.println("total vowel count: " + count);
}

```

44. WAJP to count the consonants from given string?

```

public static void main (String [] args) {
System.out.println("enter your name: ");
Scanner s = new Scanner(System.in);
String name = s.nextLine();
char ch[] = name.toCharArray();
int count = 0;
for (int i = 0; i < name.length(); i++) {
    char c = ch[i];
    if (c >= 'a' && c <= 'z') {
        if (!(c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u')) {
            count++;
        }
    }
}
System.out.println("total count of consonants: " + count);
}

```

45. WAJP to print the vowels occurrence of given string?

```

public static void main (String [] args) {
System.out.println("enter your name: ");
Scanner s = new Scanner (System.in);
String name = s.nextLine();
name = name.replace(" ", "");
char ch[] = name.toCharArray();
Map<Character, Integer> mp = new TreeMap<Character, Integer>();
for (int i = 0; i < name.length(); i++) {

```

```

        char c = ch[i];
        if (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u') {
            if (mp.containsKey(c)) {
                Integer inte = mp.get(ch[i]);
                mp.put(c, inte + 1);
            } else {
                mp.put(c, 1);
            }
        }
    }
    System.out.println(mp);
}

```

46. WAJP print the consonants occurrence of the given string?

```

public static void main (String [] args) {
System.out.println("enter your name: ");
Scanner s = new Scanner(System.in);
String name=s.nextLine();
char ch[]=name.toCharArray();
Map<Character, Integer> mp = new TreeMap<Character, Integer>();
for(int i=0; i<name.length(); i++) {
    char c=ch[i];
    if(c>='a'&&c<='z') {
        if(!(c=='a'||c=='e'||c=='i'||c=='o'||c=='u')) {
            if(mp.containsKey(c)) {
                Integer intt=mp.get(ch[i]);
                mp.put(c, intt+1);
            } else {
                mp.put(c, 1);
            }
        }
    }
}
System.out.println(mp);
}

```

47. WAJP print the second highest number of given array?

```

public static void main (String [] args) {
int arr[] = {10, 20, 30, 40, 50, 10, 20, 30, 40, 50};
int a = arr.length;
int higest = Integer.MIN_VALUE;
int sechigest = Integer.MIN_VALUE;
for (int i = 0; i < a; i++) {
    if (arr[i] > higest) {
        sechigest = higest;
        higest = arr[i];
    }
    if (arr[i] < higest && arr[i] > sechigest) {
        sechigest = arr[i];
    }
}
System.out.println("second highest number form an Array: " + sechigest);
}

```

48. WAJP print the second lowest number of given array?

```

public static void main (String [] args) {
int arr [] = {1, 2, 3, 4, 5, 6, 1, 2, 3, 4, 5, 6};
int a = arr.length;
int lowest = Integer.MAX_VALUE;
int secondlowest = Integer.MAX_VALUE;
for (int i = 0; i < a; i++) {
    if (arr[i] < lowest) {
        secondlowest = lowest;
        lowest = arr[i];
    }
    if (arr[i] > lowest && arr[i] < secondlowest) {
        secondlowest = arr[i];
    }
}

```

```

        }
    }
    System.out.println("second lowest value form an Array: " + secondlowest);
}

49. WAJP to verify the given string is integer or not?
public static void main (String [] args) {
    System.out.println("enter your value: ");
    Scanner s = new Scanner(System.in);
    String x = s.nextLine();
    char c[] = x.toCharArray();
    int size = c.length;
    int i = 0;
    while (i != size) {
        if (c[i] >= '0' && c[i] <= '9') {
            i++;
        } else {
            System.out.println("string is not integer.");
            System.exit(0);
        }
    }
    System.out.println("string is integer.");
}

50. WAJP print the right-triangle star pattern?
public static void main (String [] args) {
    System.out.println("enter your value: ");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    for (int i = 1; i <= num; i++) {
        for (int j = 1; j <= i; j++) {
            System.out.print("* ");
        }
        System.out.println();
    }
}

51. WAJP print the reverse right-triangle star pattern?
public static void main (String [] args) {
    System.out.println("enter your value: ");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    for (int i = 1; i <= num; i++) {
        for (int j = i; j <= num; j++) {
            System.out.print("* ");
        }
        System.out.println();
    }
}

52. WJAP print the left-triangle star pattern?
public static void main (String [] args) {
    System.out.println("enter your value: ");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    for (int i = 1; i <= num; i++) {
        for (int j = i; j <= num; j++) {
            System.out.print(" ");
        }
        for (int j = 1; j <= i; j++) {
            System.out.print("*");
        }
        System.out.println();
    }
}

53. WAJP print the reverse left-triangle star pattern?
public static void main (String [] args) {
    System.out.println("enter your value: ");
    Scanner s = new Scanner(System.in);

```

```

        int num = s.nextInt();
        for (int i = 1; i <= num; i++) {
            for (int j = 1; j <= i; j++) {
                System.out.print(" ");
            }
            for (int j = i; j <= num; j++) {
                System.out.print("*");
            }
            System.out.println();
        }
    }
}

```

54. WAJP print the pyramid star pattern?

```

public static void main (String [] args) {
    System.out.println("enter your input: ");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    for (int i = 1; i <= num; i++) {
        for (int j = i; j <= num; j++) {
            System.out.print(" ");
        }
        for (int j = 1; j <= i; j++) {
            System.out.print("* ");
        }
        System.out.println();
    }
}

```

55. WAJP print the reverse pyramid star pattern?

```

public static void main (String [] args) {
    System.out.println("enter your input: ");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    for (int i = 1; i <= num; i++) {
        for (int j = 1; j <= i; j++) {
            System.out.println(" ");
        }
        for (int j = i; j <= num; j++) {
            System.out.print("* ");
        }
        System.out.println();
    }
}

```

56. WAJP print the square star pattern?

```

public static void main (String [] args) {
    System.out.println("enter your number: ");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    for (int i = 1; i <= num; i++) {
        for (int j = 1; j <= num; j++) {
            System.out.print("* ");
        }
        System.out.println();
    }
}

```

57. WAJP print the square hole star pattern?

```

public static void main (String [] args) {
    System.out.println("enter your number: ");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    for (int i = 0; i < num; i++) {
        for (int j = 0; j < num; j++) {
            if (i == 0 || j == 0 || i == num - 1 || j == num - 1) {
                System.out.print("*");
            } else {
                System.out.print(" ");
            }
        }
    }
}

```

```

        }
        System.out.println();
    }
}

58. WAJP print the sandglass star pattern?
public static void main (String [] args) {
    System.out.println("enter your input: ");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    for (int i = 1; i < num; i++) {
        for (int j = 1; j <= i; j++) {
            System.out.print(" ");
        }
        for (int j = i; j <= num; j++) {
            System.out.print("* ");
        }
        System.out.println();
    }
    for (int i = 1; i <= num; i++) {
        for (int j = i; j <= num; j++) {
            System.out.print(" ");
        }
        for (int j = 1; j <= i; j++) {
            System.out.print("* ");
        }
        System.out.println();
    }
}

```

59. WAJP print the diamond star pattern?

```

public static void main (String [] args) {
    System.out.println("enter your number: ");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    for (int i = 1; i < num; i++) {
        for (int j = i; j <= num; j++) {
            System.out.print(" ");
        }
        for (int j = 1; j <= i; j++) {
            System.out.print("* ");
        }
        System.out.println();
    }
    for (int i = 1; i <= num; i++) {
        for (int j = 1; j <= i; j++) {
            System.out.print(" ");
        }
        for (int j = i; j <= num; j++) {
            System.out.print("* ");
        }
        System.out.println();
    }
}

```

60. WAJP print only outside line of diamond star pattern?

```

public static void main (String [] args) {
    System.out.println("enter your number: ");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    for (int i = 1; i < num; i++) {
        for (int j = i; j <= num; j++) {
            System.out.print("*");
        }
        for (int j = 1; j < i; j++) {
            System.out.print(" ");
        }
        for (int j = 1; j < i; j++) {

```

```

        System.out.print(" ");
    }
    for (int j = i; j <= num; j++) {
        System.out.print("*");
    }
    System.out.println();
}
for (int i = 1; i <= num; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print("*");
    }
    for (int j = i; j < num; j++) {
        System.out.print(" ");
    }
    for (int j = i; j < num; j++) {
        System.out.print(" ");
    }
    for (int j = 1; j <= i; j++) {
        System.out.print("*");
    }
    System.out.println();
}
}

```

61. WAJP print the number Floyds Tringle pattern?

```

public static void main (String [] args) {
    System.out.println("enter your number: ");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    int number = 1;
    for (int i = 1; i <= num; i++) {
        for (int j = 1; j <= i; j++) {
            System.out.print(number + " ");
            number++;
        }
        System.out.println();
    }
}

```

62. WAJP print the right-side pascal triangle (or) k pattern star pattern?

```

public static void main (String [] args) {
    System.out.println("enter your number:");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    for (int i = 1; i < num; i++) {
        for (int j = 1; j <= i; j++) {
            System.out.print("* ");
        }
        System.out.println();
    }
    for (int i = 1; i <= num; i++) {
        for (int j = i; j <= num; j++) {
            System.out.print("* ");
        }
        System.out.println();
    }
}

```

63. WAJP print the left-side pascal triangle star pattern?

```

public static void main (String [] args) {
    System.out.println("enter your number:");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    for (int i = 1; i < num; i++) {
        for (int j = i; j <= num; j++) {
            System.out.print(" ");
        }
        for (int j = 1; j <= i; j++) {
            System.out.print("* ");
        }
        System.out.println();
    }
}

```

Input:	4
Output:	<pre> * ** *** **** *** ** * </pre>

```

        System.out.print("*");
    }
    System.out.println();
}
for (int i = 1; i <= num; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print(" ");
    }
    for (int j = i; j <= num; j++) {
        System.out.print("*");
    }
    System.out.println();
}
}

```

64. WAJP print the butterfly star pattern?

```

public static void main (String [] args) {
    System.out.println("enter your number: ");
    Scanner s = new Scanner(System.in);
    int num = s.nextInt();
    for (int i = 1; i < num; i++) {
        for (int j = 1; j <= i; j++) {
            System.out.print("*");
        }
        for (int j = i; j < num; j++) {
            System.out.print(" ");
        }
        for (int j = i; j < num; j++) {
            System.out.print(" ");
        }
        for (int j = 1; j <= i; j++) {
            System.out.print("*");
        }
        System.out.println();
    }
    for (int i = 1; i <= num; i++) {
        for (int j = i; j <= num; j++) {
            System.out.print("*");
        }
        for (int j = 1; j < i; j++) {
            System.out.print(" ");
        }
        for (int j = 1; j < i; j++) {
            System.out.print(" ");
        }
        for (int j = i; j <= num; j++) {
            System.out.print("*");
        }
        System.out.println();
    }
}

```

Input: 4

Output:

```

*      *
**    **
***   ***
******
***   ***
**    **
*      *

```

65. WAJP check the given number is leaf year or not?

```

public static void main (String [] args) {
    System.out.println("enter your year: ");
    Scanner s = new Scanner(System.in);
    int year = s.nextInt();
    if (year % 400 == 0) {
        System.out.println("this is a leaf year...");
    } else if (year % 4 == 0 && year % 100 == 0) {
        System.out.println("this is a leaf year...");
    } else {
        System.out.println("this is not a leaf year...");
    }
}

```

Input: 2021

Output: this is not a
leaf year...

