Important JAVA Program

**Java program to multiply two numbers without using \* operator**

**public** **class** Test1 {

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

**int** a = 20;

**int** b = 5;

**int** sum = 0;

**for**(**int** i =0; i<b; i++)

{

sum = sum + a;

}

System.***out***.println(sum);

}

}

Output: 100

**Java program to check two arrays are equal or not:**

**package** interviewpracticeprogram;

**import** java.util.Arrays;

**public** **class** Test1 {

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

**int** ar1[] = { 10, 20, 30 };

**int** ar2[] = { 40, 50, 60 };

**int** ar3[] = { 40, 50, 60 };

System.***out***.println(Arrays.*equals*(ar1, ar2)); // false

System.***out***.println(Arrays.*equals*(ar1, ar3));// false

System.***out***.println(Arrays.*equals*(ar2, ar3)); // true

}

}

Output:

false

false

true

**Java program to check the given number is Armstrong number or not**

 What is an Armstrong number

Ex: 153 is Armstrong number because

371 = (3\*3\*3)+(7\*7\*7)+(1\*1\*1)  where:

(3\*3\*3)=27

(7\*7\*7)=343

(1\*1\*1)=1

371 = 27+343+1

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

**int** NumberToCheck = 371;

**int** temp = NumberToCheck;

**int** reminder=0;

**int** result=0;

**while** (temp != 0) {

reminder = temp % 10; // 3--5--1

result = result +(reminder\*reminder\*reminder);

temp = temp/10;

}

**if**(result==NumberToCheck)

System.***out***.println("Given Number "+NumberToCheck+" is an Armstrong Number");

**else**

System.***out***.println("Given Number "+NumberToCheck+" is NOT an Armstrong Number");

}

}

Output:

Given Number 371 is an Armstrong Number

**Java program to find second largest element In Array**

**package** interviewpracticeprogram;

**import** java.util.ArrayList;

**import** java.util.TreeSet;

**public** **class** Test1 {

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

**int** ar[] = {12,55,26,8,66,74,89,5,6,78,559,9,5};

TreeSet tr = **new** TreeSet();

**for**(**int** num:ar)

tr.add(num);

ArrayList al= **new** ArrayList(tr);

System.***out***.println("2nd Largest number in array: " + al.get(al.size()-2));

System.***out***.println(("2nd Lowest Number in array: "+ al.get(1)));

}

}

Output:

2nd Largest number in array: 89

2nd Lowest Number in array: 6

**Java program to calculate factorial of a number**

**package** interviewpracticeprogram;

**import** java.util.ArrayList;

**import** java.util.TreeSet;

**public** **class** Test1 {

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

**int** a = 5;

**int** result=1;

**for**(**int** i=a;i>=1;i--)

result = result\*i;

System.***out***.println(result);

}

}

Output:

120

**Program to find duplicate Character in a String:**

**package** interviewpracticeprogram;

**import** java.util.HashMap;

**import** java.util.Set;

**public** **class** Test1 {

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

String a = "ajhddhhdhgdwdgdwhuhjzzzyswtdqudidnjbhsgsdgsdddkjdhshqsqkdkfjds11ddhdwhdwwd3w3wdwdwhwdwhjwdwdhwwgyww";

**char**[]ar = a.toCharArray();

HashMap<Character,Integer> smap = **new** HashMap<Character,Integer>();

**for**(**char** str1:ar)

**if**(smap.containsKey(str1))

smap.put(str1,smap.get(str1)+1);

**else**

smap.put(str1, 1);

Set<Character> keys = smap.keySet();

**for**(**char** key:keys)

**if**(smap.get(key)>1)

System.***out***.print(key +":" + smap.get(key)+" ");

}

}

Output;

d:26 g:5 h:14 j:6 k:3 q:3 1:2 s:7 3:2 u:2 w:18 y:2 z:3

**Java program to find duplicate string in the Array**

**package** interviewpracticeprogram;

**import** java.util.HashMap;

**import** java.util.Set;

**public** **class** Test1 {

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

String[] st = { "avdhut", "jasmine", "avdhut", "rajesh", "maddy", "Keshav", "Priyanka", "maddy", "addy",

"priyanka", "avdhut", "jasmine", "jasmine" };

HashMap<String, Integer> smap = **new** HashMap<String, Integer>();

**for** (String str : st)

**if** (smap.containsKey(str))

smap.put(str, smap.get(str) + 1);

**else**

smap.put(str, 1);

Set<String> keys = smap.keySet();

**for** (String key : keys)

**if** (smap.get(key) > 1)

System.***out***.println(key + ":" + smap.get(key));

}

}

Output:

maddy:2

avdhut:3

jasmine:3

**Java program to sort an Array**

**package** interviewpracticeprogram;

**import** java.util.Arrays;

**public** **class** Test1 {

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

**int**[] a = {12,15,35,44,77,88,957,74,58,66,88,54,55,666,52,58,2,8,2,8879,5};

Arrays.*sort*(a);

**for**(**int** i = 0;i<a.length;i++)

System.***out***.println(a[i]);

}

}

Output:

2

2

5

8

12

15

35

44

52

54

55

58

58

66

74

77

88

88

666

957

8879

**Java program to sort an Array(another way)**

**package** interviewpracticeprogram;

**public** **class** Test1 {

**static** **int**[] *a* = { 12, 15, 35, 44, 77, 88, 957, 74, 58, 66, 88, 54, 55, 666, 52, 58, 2, 8, 2, 8879, 5 };

**int** temp = 0;

**public** **void** sortingLogic() {

**for** (**int** i = 0; i < *a*.length; i++)

**for** (**int** j = i + 1; j < *a*.length; j++) {

**if** (*a*[i] > *a*[j]) {

temp = *a*[i];

*a*[i] = *a*[j];

*a*[j] = temp;

}

}

}

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

System.***out***.println("Before Sorting");

**for** (**int** i = 0; i < *a*.length; i++)

System.***out***.print(*a*[i] + " ");

Test1 sortingLog = **new** Test1();

sortingLog.sortingLogic();

System.***out***.println();

System.***out***.println("After Sorting in Ascending");

**for** (**int** i = 0; i < *a*.length; i++)

System.***out***.print(*a*[i] + " ");

System.***out***.println();

System.***out***.println("After Sorting in Descending");

**for** (**int** i = *a*.length - 1; i >= 0; i--)

System.***out***.print(*a*[i] + " ");

}}

Output:

Before Sorting

12 15 35 44 77 88 957 74 58 66 88 54 55 666 52 58 2 8 2 8879 5

After Sorting in Ascending

2 2 5 8 12 15 35 44 52 54 55 58 58 66 74 77 88 88 666 957 8879

After Sorting in Descending

8879 957 666 88 88 77 74 66 58 58 55 54 52 44 35 15 12 8 5 2 2

**Java program to reverse the string**

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

String st = "avdhut";

String res = "";

**for** (**int** i = st.length()-1; i >= 0; i--)

res = res + st.charAt(i);

System.***out***.println(res);

}

}

Output:

tuhdva

**Java program to reverse a String in the array**

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

String str = "avdhut ram shyam vadapav burger lemon";

String ar[] = str.split(" ");

**for** (**int** i = 0; i <= ar.length - 1; i++) {

String s1 = ar[i];

ar[i] = *RevString*(s1);

}

**for** (**int** i = 0; i < ar.length; i++) {

System.***out***.print(ar[i] + " ");

}

}

// It will reverse given String

**public** **static** String RevString(String inp) {

String rev = "";

**for** (**int** j = inp.length() - 1; j >= 0; j--) {

rev = rev + inp.charAt(j);

}

**return** rev;

}

}

Output:

tuhdva mar mayhs vapadav regrub nomel

**Java program to count the number of spaces in java**

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

String s = "av dh ut paw a r";

**int** count = 0;

**for**(**int** i=0;i<s.length();i++)

{

**char** str = s.charAt(i);

**if**(str==' ') {

count++;

}

}

System.***out***.println(count);

}

}

Output:

5

**Write program to identify given number is even or odd**

**package** interviewpracticeprogram;

**import** java.util.Scanner;

**public** **class** Test1 {

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

Scanner scn = **new** Scanner(System.***in***);

System.***out***.println("Enter Number: ");

**int** input = scn.nextInt();

**if**(input%2==0)

System.***out***.println("Number is Even");

**else**

System.***out***.println("Number is Odd");

}

}

Output:

Enter Number:

55

Number is Odd

**Write program to print 0 to 100 even number**

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

**for**(**int** i =0;i<=100;i++)

**if**(i%2==0)

System.***out***.print(i+ " ");

}

}

Output:

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100

**Write program to print 0 to 100 odd number**

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

**for**(**int** i =0;i<=100;i++)

**if**(!(i%2==0))

System.***out***.print(i+ " ");

}

}

Output:

1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99

**Draw Pattern:**

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

**for** (**int** i = 0; i <= 5; i++) {

**for** (**int** j = 0; j <= 5; j++)

System.***out***.print(" \* ");

System.***out***.println(" ");

}

}

}

Output:

\* \* \* \* \* \*

\* \* \* \* \* \*

\* \* \* \* \* \*

\* \* \* \* \* \*

\* \* \* \* \* \*

\* \* \* \* \* \*

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

**for** (**int** i = 0; i <= 5; i++) {

**for** (**int** j = 0; j <= i; j++)

System.***out***.print(" \* ");

System.***out***.println(" ");

}

}

}

Output:

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

\* \* \* \* \* \*

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

**for**(**int** i=0; i<=5;i++)

{

**for**(**int** j=2\*(5-i);j>=0;j--)

System.***out***.print(" ");

**for**(**int** j=0; j<=i; j++)

System.***out***.print("\* ");

System.***out***.println("");

}

}

}

Output:

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

\* \* \* \* \* \*

**Write Programe to remove the spaces in string**

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

String a = "auto mation";

a = a.replace(" ", "");

System.***out***.println(a);

}

}

Output:

automation

**Write Programe to reverse the string by removing the spaces**

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

String a = "auto mation";

String str = "";

a = a.replace(" ", "");

**for**(**int** i =a.length()-1;i>=0;i--)

str = str + a.charAt(i);

System.***out***.println(str);

}

}

Output:

noitamotua

**Write programe to remove special char from given string**

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

String s = "sasjsjj2q8w2djkj##@^@\*WIW@WH88ijjjsoHSdkdsk5845dsd5fhhhasssh267623&^&&&27^&82u2uhjsdG55^\*I\*D\*SS$@Y&J";

s = s.replaceAll("[^a-zA-Z0-9]", "");

System.***out***.println(s);

}

Output:

sasjsjj2q8w2djkjWIWWH88ijjjsoHSdkdsk5845dsd5fhhhasssh2676232782u2uhjsdG55IDSSYJ

**Write programe to keep only special char from given string**

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

String s = "sasjsjj2q8w2djkj##@^@\*WIW@WH88ijjjsoHSdkdsk5845dsd5fhhhasssh267623&^&&&27^&82u2uhjsdG55^\*I\*D\*SS$@Y&J";

s = s.replaceAll("[a-zA-Z0-9]", "");

System.***out***.println(s);

}

}

Output:

##@^@\*@&^&&&^&^\*\*\*$@&

**Write programe to remove upper case char from given string**

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

String s = "sasjsjj2q8w2djkj##@^@\*WIW@WH88ijjjsoHSdkdsk5845dsd5fhhhasssh267623&^&&&27^&82u2uhjsdG55^\*I\*D\*SS$@Y&J";

s = s.replaceAll("[^a-z0-9]", "");

System.***out***.println(s);

}

}

Output:

sasjsjj2q8w2djkj88ijjjsodkdsk5845dsd5fhhhasssh2676232782u2uhjsd55

**Write programe to print only numbers from given string**

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

String s = "sasjsjj2q8w2djkj##@^@\*WIW@WH88ijjjsoHSdkdsk5845dsd5fhhhasssh267623&^&&&27^&82u2uhjsdG55^\*I\*D\*SS$@Y&J";

s = s.replaceAll("[^a-zA-Z0-9]", "");

s = s.replaceAll("[a-zA-Z]", "");

System.***out***.println(s);

}

}

**Output:**

28288584552676232782255

**Write java programme for hibonachi series range from 1 to 10**

**package** interviewpracticeprogram;

**public** **class** Test1 {

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

**int** a = 0;

**int** b = 1;

**int** c = 0;

**for** (**int** i = 0; i < 10; i++) {

c = a + b;

System.***out***.print(c);

a = b;

b = c;

}

}

}

Output:

1 2 3 5 8 13 21 34 55 89

**Write program to find Prime number from 1 to 100**

**package** javaprograms;

**public** **class** Check {

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

**for**(**int** i = 1; i<=100; i++) {

**int** count = 0;

**for**(**int** j = 1; j<=100;j++) {

**if**(i%j==0) {

count++;

}

}

**if**(count==2) {

System.***out***.print(i + " ");

}

}

}

}

Output

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97