

## **Kalvi education symposium 2025 hackathon java**

- 1) How to reverse a string in java without using reverse?
- 2) How to check if a string contains only numeric digits?
- 3) How do you print duplicate elements from an array in java?
- 4) How to swap two integers without using temp variable?
- 5) how do you check whether a string is a palindrome in java?  
Note: use for loop and while loop  
Don't use reverse function
- 6) how do you remove spaces from a string in java?  
Don't use replace function
- 7) how do you remove leading and trailing spaces from a string in java?  
Don't use trim function
- 8) how do you find the second largest number in an array in java?
- 9) how do you get distinct characters and their count in a string in java?

Sample input and output:

Enter string: KARURr

K = 1  
A =1  
R=2  
U=1  
r=1

- 10) To check the given number is palindrome or not:

- 11) To find the reverse of each word:

Example:

String str = "welcome to java class";

Output: emoclew ot avaj ssalc

- 12) To change each word's first letter to upper case:

Example:

String str = "welcome to java class";

Output: welcome to java class

- 13) To remove word duplicates from a string

```
string str = "java sql java python java python";
```

Output: java sql python

- 14) To sort the characters in the given string:

Example:

```
String s = "goodday";
```

Output: addgooy

- 15) Insert a string into another string in java

Example:

```
String text="gowthamannamakkal"
```

```
String instext="from"
```

```
Int index=10
```

Output: gowthamanfromnamakkal

- 16) Triangle program K format.

Example:1

Input : enter no. of rows: 7 (input should be odd number)

Output:

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

Example:2

Input : enter no. of rows: 9 (input should be odd number)

Output:

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

=====oops=====

- 1) Create a Student class with rollNo, sname and mark as attributes. Write a method to calculate the grade based on the marks and display the grade. Create multiple instances of the Student class and print their grades.

Conditions:

Mark>=85	outstanding
Mark>=75	excellent
Mark>=65	good
Mark>=50	fair
Mark<50	reappear

- 2) Create a Employee class with empno, ename and salary as attributes. Write a method to calculate the bonus based on the salary Create multiple instances of the Employee class and print their bonuses.

Conditions:

Salary >=30000    bonus : 7%

Salary 20000 to 29999    bonus: 4%

Salary below 20000    bonus: 3%

- 3) Write a program to accept a rollno, student's name and three marks. Calculate the total and average, and display the all students using a class and object.

Conditions:

Display average in descending order

- 4) Create an Employee class with members empNo, name, department, and salary. Use a one-dimensional array of Employee objects (size N nos) to read the data for n employees. Display the data and determine which employee has the highest salary
- 5) Write a Java program to create a class called "Movie" with attributes for title, director, actors, and reviews, and methods for adding and retrieving only reviews.
- 6) Write a java program to create a class called “Enquiry” with attributes for eno,ename,course,address,phoneno and totalfeess. Create multiple instances of the [Enquiry](#) class and store in database(msaccess/mysql).