Java Revision Exercises-1

1. Write a Java program to print 'Hello' on screen and then print your name on a separate line

Expected Output :
Hello
Alexandra Abramov

2. Write a Java program to print the sum of two numbers
Test Data:
74 + 36
Expected Output :
110

3. Write a Java program to divide two numbers and print on the screen Test Data
:
50/3
Expected Output :
16

4. Write a Java program to print the result of the following operations *Test Data:*
a. -5 + 8 * 6
b. (55+9) % 9
c. 20 + -3*5 / 8
d. 5 + 15 / 3 * 2 - 8 % 3
Expected Output :
43
1
19
13

5. Write a Java program that takes two numbers as input and display the product of two numbers
Test Data:
Input first number: 25
Input second number: 5

Expected Output :
25 x 5 = 125

6. Write a Java program to print the sum (addition), multiply, subtract, divide and remainder of two numbers. *Test Data:*
Input first number: 125
Input second number: 24
Expected Output :
125 + 24 = 149
125 - 24 = 101
125 x 24 = 3000
125 / 24 = 5
125 mod 24 = 5

7. Write a Java program that takes a number as input and prints its multiplication table upto 10
Test Data:
Input a number: 8
Expected Output :
8 x 1 = 8
8 x 2 = 16
8 x 3 = 24
...
8 x 10 = 80

8. Write a Java program to display the following pattern
Sample Pattern :

```
   J    a   v    v   a
   J    a a   v   v   a a
J  J  aaaaa   V V  aaaaa
 JJ  a     a  V  a     a
```

9. Write a Java program to compute the specified expressions and print the output. *Test Data:*
((25.5 * 3.5 - 3.5 * 3.5) / (40.5 - 4.5))
Expected Output
2.138888888888889

10. Write a Java program to compute a specified formula. *Specified Formula :*
4.0 * (1 - (1.0/3) + (1.0/5) - (1.0/7) + (1.0/9) - (1.0/11))
Expected Output
2.9760461760461765

11. Write a Java program to print the area and perimeter of a circle*Test Data:*
Radius = 7.5
Expected Output
Perimeter is = 47.12388980384689
Area is = 176.71458676442586

12. Write a Java program that takes three numbers as input to calculate and print the average of the numbers.

13. Write a Java program to print the area and perimeter of a rectangle. *Test Data:*
Width = 5.5 Height = 8.5

Expected Output
Area is 5.6 * 8.5 = 47.60
Perimeter is 2 * (5.6 + 8.5) = 28.20

14. Write a Java program to print an American flag on the screen. *Expected Output*

```
*  *  *  *  *  *   ==================================
  *  *  *  *  *    ==================================
*  *  *  *  *  *   ==================================
  *  *  *  *  *    ==================================
*  *  *  *  *  *   ==================================
  *  *  *  *  *    ==================================
*  *  *  *  *  *   ==================================
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