

Practice questions

1. Write an application that prints, on separate lines, your name, your birthday, your hobbies, your favorite book, and your favorite movie. Label each piece of information in the output.
2. Write an application that prints the phrase Knowledge is Power:
 - on one line
 - on three lines, one word per line,
 - inside a box made up of the characters = and |
3. Write a program to print the following pattern on screen. (With and without loop)
*
**

4. Print the following pattern on the screen

*

5. Write a program to print the sum of the numbers 2, 4 and 5.
6. Write a program to print the difference and product of the numbers 45 and 32.
7. Write a program to print the area of a rectangle of sides 2 and 3 units respectively.
8. Write a program to check if the two numbers 23 and 45 are equal.
9. If the marks of Robert in three subjects are 78,45 and 62 respectively (each out of 100), write a program to calculate his total marks and percentage marks.

10. Write a program to take two integer inputs from user and print sum and product of them.
11. Take 10 integers from keyboard using loop and print their average value on the screen.
12. Print multiplication table of 24, 50 and 29 using loop.
13. Write a program to print the sum of two numbers entered by user by defining your own method.
14. Define a method that returns the product of two numbers entered by user.
15. Predict the output of the following code before running:

```
public class Addition
{
    public static void main (String[] args)
    {
        System.out.println ("24 and 45 concatenated: " + 24 + 45);
        System.out.println ("24 and 45 added: " + (24 + 45));
    }
}
```

16. Predict the output of the following code before running:

```
public class PianoKeys
{
    public static void main (String[] args)
    {
        int keys = 88;
        System.out.println ("A piano has " + keys + " keys.");
    }
}
```

17. Predict the output of the following code before running:

```
public class Geometry
{
    public static void main (String[] args)
    {
        int sides = 7; // declaration with initialization
        System.out.println ("A heptagon has " + sides + " sides.");
        sides = 10; // assignment statement
        System.out.println ("A decagon has " + sides + " sides.");
        sides = 12;
        System.out.println ("A dodecagon has " + sides + " sides.");
    }
}
```

18. Your program needs a variable of type int to hold the number of CDs in a music collection. The initial value should be zero. Write a declaration statement for the variable.

19. Write an application that prints the Fahrenheit equivalent of a specific Celsius value using the formula, $F = (9/5)C + 32$

20. What is the result of $19\%5$ when evaluated in a Java expression?

21. What is the result of $13/4$ when evaluated in a Java expression?

22. Write an application that reads two floating point numbers and prints their sum, difference, and product.