1. Create a program to print all numbers divisible by 6 between 1 and 100 using a **while** loop and **continue**.

public class DivisibleBy6 {

public static void main(String[] args) {

int num = 1;

while (num <= 100) {

if (num % 6 == 0) {

System.out.print(num + " ");

}

num++;

}

}

}

Explanation:

1. Class and Main Method:
   * The code starts by defining a class named DivisibleBy6.
   * The main method is the entry point of the program.
2. Variable Declaration:
   * An integer variable num is declared and initialized to 1, representing the starting number.
3. While Loop:
   * The while loop continues as long as num is less than or equal to 100.
4. Divisibility Check:
   * Inside the loop, the condition num % 6 == 0 checks if num is divisible by 6.
     + The modulo operator (%) gives the remainder of a division. If the remainder is 0, it means the number is divisible.
5. Printing Divisible Numbers:
   * If the divisibility condition is true, the number num is printed to the console.
6. Increment:
   * The num++ statement increments num by 1 in each iteration, moving to the next number in the sequence.

Key Points:

* The while loop ensures that the code repeatedly checks for divisibility until the upper limit of 100 is reached.
* The continue statement is not explicitly used in this code, as the default behavior of the loop is to continue to the next iteration if the divisibility condition is not met.
* The output of the program will be a sequence of numbers between 1 and 100 that are divisible by 6, printed on a single line.