**Object oriented programming with JAVA**

**Questions bank**

**UNIT-3**

|  |  |
| --- | --- |
| **SR No.** | **Question** |
| 1 | Define the purpose of conditional statements in programming. |
| 2 | Explain the difference between the if-else statement and the switch statement with an example. |
| 3 | Write a Java code snippet to find the largest of three given numbers using nested if statements. |
| 4 | Discuss the advantages and disadvantages of using a do-while loop compared to a while loop. |
| 5 | Assess the efficiency of using a for loop versus a while loop in a scenario where you need to iterate over a fixed number of elements. |
| 6 | Construct a Java program that generates and prints the first n Fibonacci numbers using a loop. |
| 7 | Define the purpose of the break statement in Java. |
| 8 | Explain the difference between the continue statement and the break statement with an example. |
| 9 | Write a Java code snippet to print all the prime numbers between 1 and 100 using a loop and the continue statement. |
| 10 | Evaluate the use of the switch statement over nested if-else statements in terms of code readability and performance. |
| 11 | Assess the readability and maintainability of nested control statements in a complex code snippet and suggest improvements. |
| 12 | Develop a menu-driven program in Java that allows users to perform basic arithmetic operations (addition, subtraction, multiplication, division) based on their choice. |
| 13 | Define the purpose of the return statement in Java. |
| 14 | Explain the concept of short-circuit evaluation in Java's conditional statements and its potential benefits. |
| 15 | Write a Java code snippet to reverse the order of characters in a given string using a loop. |