Java Basics Assignments for Students

- 1. Hello World
- Write a Java program that prints "Hello, World!" to the console.
- 2. Simple Calculator
- Prompt the user to input two numbers and an operator (+, -, *, /).
- Perform the selected operation and print the result.
- 3. Odd or Even
- Input an integer and determine whether it is odd or even.
- 4. Leap Year Checker
- Ask the user to enter a year and check whether it is a leap year.
- 5. Grade Calculator
- Input marks for 5 subjects and calculate the average.
- Assign grades based on average (A, B, C, etc.).
- 6. Multiplication Table
- Print the multiplication table of a given number using a loop.
- 7. Factorial of a Number
- Input a number and compute its factorial using a loop.
- 8. Fibonacci Series
- Print the first N numbers of the Fibonacci sequence.
- 9. Number Guessing Game
- Generate a random number and let the user guess it in a loop until correct.
- 10. Array Operations
- Create an array of integers.
 - Find the maximum, minimum, and average.

- Sort the array in ascending order.
- 11. Palindrome Checker
- Check if a given string or number is a palindrome.
- 12. Simple Bank Account Class
- Create a `BankAccount` class with methods to deposit, withdraw, and check balance.
- 13. Student Class
- Create a class `Student` with properties like name, roll number, and grade.
- Create an array of students and display their information.
- 14. Prime Number Checker
- Input a number and determine if it is prime.
- 15. Reverse a String
- Input a string and print its reverse.