

**DEPARTMENT OF COMPUTER APPLICATIONS**  
**BHILAI INSTITUTE OF TECHNOLOGY, DURG**  
**MCA-2<sup>ND</sup> SEMESTER**  
**SUBJECT: JAVA PROGRAMMING**

**LIST OF PROGRAM**

1. Write a JAVA program to input radius of a circle and print the Area and Perimeter of a circle.
2. Write a JAVA program to input three numbers from the keyboard and print the greatest number.
3. Write a JAVA program to print the sum of all the numbers between 200 to 700, which are divisible by 3 and 5.
4. Write a JAVA program to print the sum of the digits of a number.
5. Write a JAVA program to count number of words in given string.
6. Write a JAVA program to create a simple class named Rectangle and print the Area and Perimeter of that rectangle.
7. Write a JAVA program to create a simple class to calculate the factorial of a given number by using constructor to initialize the object of that class.
8. Write a JAVA program to implements default and parameterized constructor.
9. Write a JAVA program to implements constructor overloading.
10. Write a JAVA program to implements single level inheritance.
11. Write a JAVA program to implements multilevel inheritance.
12. Write a java code to demonstrate the calling of parameterized constructors of parent class in single level and multi-level inheritance using **super** keyword.
13. Write a JAVA program to demonstrate creating object a class and call the methods of the class with different access modifiers **public**, and **private**.
14. Write a JAVA program to demonstrate the use of **protected** access modifiers.
15. Write a JAVA program to demonstrate garbage collection using the **finalize()** method with a suitable example.
16. Write a JAVA program to demonstrate the various use of **this** keyword.
17. Write a JAVA program to demonstrate the method overloading concept.
18. Write a JAVA program to demonstrate the method overriding concept.
19. Write a JAVA program to demonstrate the Dynamic Method Dispatching or Run Time Polymorphism.
20. Write a JAVA program to demonstrate the application of Abstract class.