Inter Institutional Computer Centre
An Autonomous Department of
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Subject:- Practical-I Java Programming

1) Write a Java program to find the volume of box.
2) Write a Java program to find the volume of two boxes.
3) Write a Java program to find the area of rectangle.
4) Write a Java program to find the area of circle.
5) Write a Java program to assign the object reference variable.
6) Write a Java program to assign the one object to another object.
7) Write a Java program to create classes Rectangle and Box and find out their names by using methods.
8) Write a Java program to find the volume of box using method.(create method volume())
9) Write a program in Java find the volume of box using constructor.
10) Write a program in Java to demonstrate namespace collision.
11) Write a program in Java to demonstrate ***this*** keyword.
12) Write a program in Java to demonstrate ***finalize()*** method.
13) Write a program in Java to compute volume of box and cube by using constructor overloading.
14) Write a program in Java to demonstrate concept of reference to object.
15) Write a program in Java to create a **main** thread.
16) Write a program in Java to create a thread by extending a class.
17) Write a program in Java to create the two child thread by extending a thread class.
18) Write a program in Java to create the thread by using runnable interface.
19) Write a program in Java to create child thread by implementing runnable interface.
20) Write a program in Java to demonstrate **isAlive()** and **join()** method of a thread.
21) Write a program in Java to overload method **volume()** to find volume of sphere and volume of rectangle.
22) Write a program in Java to demonstrate the concept of single inheritance.
23) Write a program in Java to demonstrate the concept of multilevel inheritance.
24) Write a program in Java to demonstrate the concept of method overriding.
25) Write a program in Java to demonstrate the use of **super** keyword.
26) Write a program in Java to print and solve the following series using **for** loop

S=1/1! + ½! +1/3!+……..+1/n!

27) Write a program in Java to print and solve the following series using **while** loop

S=1 +1/0.1+1/0.01+……..+nth term

28) Write a program in Java to print the multiplication table of 5 using for loop

29) Write a program in Java to print two matrices and their multiplication by using the concept of 2-D array. (use matrix of size 3X3)

30) Write a program in Java to display and print the sum of following series
S=1-1+1-1+1-1+.....

31) Write a program in Java to display and print the sum of following series
$S=x - x^2/3 + x^3/5 - x^4/7 + ...$ to n terms

32) Write a program in Java to display and print the sum of following series
$S= a + a^2 / 2 + a^3 / 3 + ... + a^{10} / 10$

33) Write a program in Java to display and print the sum of following series
S= 1+2+4+7+11+.....+nth term

34) Write a program in Java to display and print the sum of following series
S= 1 + (x+2)/2! + (2x+3)/3! + (3x+4)/4! +.....+nth term