Experiment : 1 : Concept of class & object

a)Simple addition program

Program code :

1. **import** java.util.Scanner;
2. **import** java.lang.\*;
3. **class** AddNumbers
4. {
5. **public** **static** **void** main(String args[])
6. {
7. **int** x, y, z;
9. System.out.println("Enter two integers to calculate their sum");
10. Scanner in = **new** Scanner(System.in);
12. x = in.nextInt();
13. y = in.nextInt();
14. z = x + y;
16. System.out.println("Sum of the integers = " + z);
17. }
18. }

Output >>

4

5

Sum of the integers = 9

b)Program for simple calculator:

program code :

1. import java.util.Scanner;
2. import java.lang.\*;
3. public class Calculator {
4. public static void main(String[] args) {
5. Scanner reader = new Scanner(System.in);
6. System.out.print("Enter two numbers: ");
7. // nextDouble() reads the next double from the keyboard
8. double first = reader.nextDouble();
9. double second = reader.nextDouble();
10. System.out.print("Enter an operator (+, -, \*, /): ");
11. char operator = reader.next().charAt(0);
12. double result;
13. switch(operator)
14. {
15. case '+':
16. result = first + second;
17. break;
18. case '-':
19. result = first - second;
20. break;
21. case '\*':
22. result = first \* second;
23. break;
24. case '/':
25. result = first / second;
26. break;
27. // operator doesn't match any case constant (+, -, \*, /)
28. default:
29. System.out.printf("Error! operator is not correct");
30. return;
31. }
32. System.out.printf("%.1f %c %.1f = %.1f", first, operator, second, result);
33. }
34. }

Output >>

5

8

\*

5 \* 8 = 40

c)Array int sting float:

Program code :