1.ARRAY AVERAGE

```
package javaday1assignment;
import java.util.Scanner;
public class ArrayAverage {
   public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      int[] numbers = new int[5];
      int sum = 0;
      System.out.println("Enter 5 numbers:");
      for (int i = 0; i < numbers.length; i++) {
         numbers[i] = scanner.nextInt();
         sum += numbers[i];
      }
      double average = (double) sum / numbers.length;
      System.out.println("Average: " + average);

      scanner.close();
   }
}
```

2.VARIABLES

```
package javaday1assignment;
public class Variables{
    public static void main(String[] args) {
      int studentID = 101;
      String name = "Arun";
      double marks = 89.5;
      char grade = 'A';
      System.out.println("Student ID: " + studentID);
      System.out.println("Name: " + name);
```

```
        System.out.println("Marks: " + marks);
        System.out.println("Grade: " + grade);
    }
}
```

3.OPERATORS

```
package javaday1assignment;
import java.util.Scanner;
public class Operators {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter Number1: ");
        int number1 = scanner.nextInt();
        System.out.print("Enter Number2: ");
        int number2 = scanner.nextInt();
        int sum = number1 + number2;
        int greater = (number1 > number2) ? number1 : number2;
        boolean bothPositive = (number1 > 0) && (number2 > 0);
        System.out.println("\n--- Results ---");
        System.out.println("Addition: " + sum);
        System.out.println("Greater number: " + greater);
        System.out.println("Are both positive? " + bothPositive);
        scanner.close();
    }
}
```

4.STRING CONCATENATION

```
package javaday1assignment;
import java.util.Scanner;
public class StringConcatenation {
    public static void main(String[] args) {
```

```
        Scanner scanner = new Scanner(System.in);
        System.out.print("First Name: ");
        String firstName = scanner.nextLine();
        System.out.print("Last Name: ");
        String lastName = scanner.nextLine();
        String message = "Hello, " + firstName + " " + lastName + "! Welcome to the system.";
        System.out.println("\n" + message);
        scanner.close();
    }
}
```

5.STRING BUILDER

```
package javaday1assignment;
import java.util.Scanner;
public class StringBuilderEx{
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Input: ");
        String sentence = scanner.nextLine();
        StringBuilder sb = new StringBuilder(sentence);
        String reversed = sb.reverse().toString();
        System.out.println("Original: " + sentence);
        System.out.println("Reversed: " + reversed);

        scanner.close();
    }
}
```

6.STRING API

```
package javaday1assignment;
import java.util.Scanner;
```

```
public class StringAPI {
   public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      System.out.print("Enter a string: ");
      String input = scanner.nextLine();
      System.out.print("Enter a character to count: ");
      char target = scanner.next().charAt(0);
      int count = 0;
      for (int i = 0; i < input.length(); i++) {
         if (input.charAt(i) == target) {
            count++;
         }
      }

     System.out.println("Character '" + target + "' appears " + count + " times.");
     scanner.close();
   }
}
```

7.DATE,TIME,NUMERIC OBJECTS

```
package javaday1assignment;
import java.text.NumberFormat;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Locale;
public class DateTimeNumericobjects {
   public static void main(String[] args) {
     Date currentDate = new Date();
     SimpleDateFormat dateFormat = new SimpleDateFormat("dd-MM-yyyy");
     String formattedDate = dateFormat.format(currentDate);
     double amount = 12345.678;
```

```
        NumberFormat currencyFormat = NumberFormat.getCurrencyInstance(new Locale("en", "IN"));
        String formattedAmount = currencyFormat.format(amount);
        System.out.println("Current Date: " + formattedDate);
        System.out.println("Formatted Amount: " + formattedAmount);
    }
}
```

8.FLOW CONTROL

```
package javaday1assignment;
import java.util.Scanner;
public class FlowControl {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int number = scanner.nextInt();
        if (number > 0) {
            System.out.println("The number is positive.");
        } else if (number < 0) {
            System.out.println("The number is negative.");
        } else {
            System.out.println("The number is zero.");
        }

        scanner.close();
    }
}
```

9.CONDITIONS

```
package javaday1assignment;
import java.util.Scanner;
```

```
public class Condition{
   public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      System.out.print("Enter your marks: ");
      int marks = scanner.nextInt();
      if (marks >= 90) {
         System.out.println("Grade: A+");
      } else if (marks >= 80) {
         System.out.println("Grade: A");
      } else if (marks >= 70) {
         System.out.println("Grade: B");
      } else if (marks >= 60) {
         System.out.println("Grade: C");
      } else if (marks >= 50) {
         System.out.println("Grade: D");
      } else {
         System.out.println("Grade: F (Fail)");
      }

      scanner.close();
   }
}
```

10.SWITCH

```
package javaday1assignment;
import java.util.Scanner;
public class Switch {
   public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      System.out.print("Enter first number: ");
      double num1 = scanner.nextDouble();
```

```
System.out.print("Enter second number: ");
double num2 = scanner.nextDouble();
System.out.print("Enter operation (+, -, *, /): ");
char operator = scanner.next().charAt(0);
double result;
switch (operator) {
    case '+':
        result = num1 + num2;
        System.out.println("Result: " + result);
        break;
    case '-':
        result = num1 - num2;
        System.out.println("Result: " + result);
        break;
    case '*':
        result = num1 * num2;
        System.out.println("Result: " + result);
        break;
    case '/':
        if (num2 != 0) {
            result = num1 / num2;
            System.out.println("Result: " + result);
        } else {
            System.out.println("Error: Division by zero!");
        }
        break;
    default:
        System.out.println("Invalid operation!");
}

scanner.close();
```

```
    }
}
```

11. LOOPS AND BRANCHING

```
package javaday1assignment;
import java.util.Scanner;
public class LoopsandBranching{
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter the value of N: ");
        int N = scanner.nextInt();
        System.out.print("First " + N + " even numbers: ");
        for (int i = 0; i < N; i++) {
            System.out.print((2 * i) + " ");
        }

        scanner.close();
    }
}
```

12.PRIMITIVE DATA TYPES

```
package javaday1assignment;
import java.util.Scanner;
public class DataTypes {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter Age: ");
        int age = scanner.nextInt();
        System.out.print("Enter Height (in feet): ");
        float height = scanner.nextFloat();
```

```
        System.out.print("Enter Weight (in kg): ");
        double weight = scanner.nextDouble();
        System.out.println("\n--- Person Information ---");
        System.out.println("Age: " + age);
        System.out.println("Height: " + height);
        System.out.println("Weight: " + weight);
        scanner .close();
    }
}
```

13.ENUM

```
package javaday1assignment;
import java.util.Scanner;
public class Enum {
    enum Day {
        MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, SATURDAY, SUNDAY
    }
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a day (e.g., MONDAY): ");
        String input = scanner.next().toUpperCase();
        try {
            Day day = Day.valueOf(input);
            switch (day) {
                case MONDAY:
                    System.out.println("Start of the work week!");
                    break;
                case FRIDAY:
                    System.out.println("Almost weekend!");
                    break;
                case SATURDAY:
```

```
            case SUNDAY:
                System.out.println("It's the weekend!");
                break;
            default:
                System.out.println("Midweek day.");
        }
    } catch (IllegalArgumentException e) {
        System.out.println("Invalid day entered!");
    }

    scanner.close();
  }
}
```

14.OOPS CONCEPT

```
package javaday1assignment;
import java.util.Scanner;
public class OOPSConcept {
        static class Student {
    String name;
    int marks;
    Student(String name, int marks) {
        this.name = name;
        this.marks = marks;
    }
    void display() {
        System.out.println("Student Name: " + name);
        System.out.println("Marks: " + marks);
    }
  }
        public static void main(String[] args) {
```

```
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter student name: ");
        String name = scanner.nextLine();
        System.out.print("Enter marks: ");
        int marks = scanner.nextInt();
        Student s1 = new Student(name, marks);
        s1.display();
        scanner.close();
    }
}
```

15.INHERITANCE

```
package javaday1assignment;
import java.util.Scanner;
class Employee {
 String name;
 double salary;
 Employee(String name, double salary) {
    this.name = name;
    this.salary = salary;
 }
}
class Manager extends Employee {
 String department;
 Manager(String name, double salary, String department) {
    super(name, salary);
    this.department = department;
 }
void display() {
    System.out.println("Name: " + name);
```

```
    System.out.println("Salary: " + salary);
    System.out.println("Department: " + department);
 }
}
public class Inheritance {
 public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter name: ");
    String name = scanner.nextLine();
    System.out.print("Enter salary: ");
    double salary = scanner.nextDouble();
    scanner.nextLine();
    System.out.print("Enter department: ");
    String department = scanner.nextLine();
    Manager mgr = new Manager(name, salary, department);
    mgr.display();
    scanner.close();
 }
}
```