Array

1.Write a program to print 5 array elements using scanner\

```java
import java.util.Scanner;

public class PrintArray {

        public static void main(String[] args) {

                Scanner sc = new Scanner(System.in);
                System.out.println("Enter the size of array");
                int size = sc.nextInt();

                int[] arr = new int[size];

                System.out.println("Enter the array elements: ");
                for(int i=0; i<size; i++) {

                        System.out.println(i);
                }


        }

}
```

2.Write a program to print the book details (book id,book name,price) using arrays of object

```java
class Book {
   int bookId;
   String bookName;
   double price;

   // Parameterized constructor
   Book(int id, String name, double price) {
      this.bookId = id;
      this.bookName = name;
      this.price = price;
```

```java
    }
}

public class BookDetails {

    public static void main(String[] args) {
        // Create an array of Book objects
        Book[] books = new Book[3];

        // Assign values to array elements
        books[0] = new Book(1, "Java Programming", 29.99);
        books[1] = new Book(2, "Data Structures", 39.99);
        books[2] = new Book(3, "Algorithms", 49.99);

        // Print book details
        System.out.println("Book Details:");
        for (Book book : books) {
            printBookDetails(book);
        }
    }

    // Method to print book details
    private static void printBookDetails(Book book) {
        System.out.println("Book ID: " + book.bookId);
        System.out.println("Book Name: " + book.bookName);
        System.out.println("Price: $" + book.price);
        System.out.println("---------------");
    }
}
```

3.write a program to print the students details(stdid,stdname,stdmark) using array elements

```java
class Student {
    int stdId;
    String stdName;
    double stdMarks;

    // Parameterized constructor
    Student(int id, String name, double marks) {
        this.stdId = id;
```

```java
        this.stdName = name;
        this.stdMarks = marks;
    }
}

public class StudentDetails {

    public static void main(String[] args) {
        // Create an array of Student objects
        Student[] students = new Student[3];

        // Assign values to array elements
        students[0] = new Student(101, "John", 85.5);
        students[1] = new Student(102, "Alice", 92.0);
        students[2] = new Student(103, "Bob", 78.5);

        // Print student details
        System.out.println("Student Details:");
        for (Student student : students) {
            printStudentDetails(student);
        }
    }

    // Method to print student details
    private static void printStudentDetails(Student student) {
        System.out.println("Student ID: " + student.stdId);
        System.out.println("Student Name: " + student.stdName);
        System.out.println("Student Marks: " + student.stdMarks);
        System.out.println("--------------");
    }
}
```

4. Program to print the elements of an array present on an even position

```java
public class EvenPositionElements {

    public static void main(String[] args) {
        int[] array = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};

        System.out.println("Array elements at even positions:");
        printEvenPositionElements(array);
```

```java
    }

    // Method to print elements at even positions in an array
    private static void printEvenPositionElements(int[] arr) {
        for (int i = 1; i < arr.length; i += 2) {
            System.out.print(arr[i] + " ");
        }
    }
}
```

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