Example 1

**package** hello;

**import** java.util.\*;

**public** **class** Linkedlist1 {

**public** **static** **void** main(String[] args){

// create linkedlist

LinkedList<String> animals = **new** LinkedList<String>();

// add() method without the index parameter

animals.add("Dog");//index 0

animals.add("Cat");//index 1

animals.add("Cow");//index 2

System.***out***.println("LinkedList: " + animals);

// add() method with the index parameter

animals.add(1, "Horse");// wants to add animal horse in the index 1

animals.add(2,"peacock");//wants to add animal peacock in the index 2

System.***out***.println("Updated LinkedList: " + animals);

String str = animals.get(1);

System.***out***.print("Element at index 1: " + str);

}

}

Output:

LinkedList: [Dog, Cat, Cow]

Updated LinkedList: [Dog, Horse, peacock, Cat, Cow]

Element at index 1: Horse

Example 2:

**package** hello;

**import** java.util.LinkedList;

**public** **class** Linkedlist2 {

**public** **static** **void** main(String[] args) {

LinkedList<String> languages = **new** LinkedList<String>();

// add elements in the linked list

languages.add("Python");

languages.add("Java");

languages.add("JavaScript");

System.***out***.println("LinkedList: " + languages);

// get the element from the linked list

String str = languages.get(1);

System.***out***.print("Element at index 1: " + str);

}

}

Output:

LinkedList: [Python, Java, JavaScript]

Element at index 1: Java

Example 3:

**package** hello;

**import** java.util.LinkedList;

**public** **class** Linkedlist3 {

**public** **static** **void** main(String[] args) {

LinkedList<String> languages = **new** LinkedList<String>();

// add elements in the linked list

languages.add("Java");// index 0

languages.add("Python");// index 1

languages.add("JavaScript");//index 2

languages.add("c++");//index 3

System.***out***.println("LinkedList: " + languages);

// change elements at index 3

languages.set(3, "c sharp");

languages.set(1, "Azure Databricks");

System.***out***.println("Updated LinkedList: " + languages);

}

}

Output:

LinkedList: [Java, Python, JavaScript, c++]

Updated LinkedList: [Java, Azure Databricks, JavaScript, c sharp]

Example 4:

**package** hello;

**import** java.util.LinkedList;

**public** **class** Linkedlist4 {

**public** **static** **void** main(String[] args) {

LinkedList<String> languages = **new** LinkedList<String>();

// add elements in LinkedList

languages.add("Java");//index 0

languages.add("Python");// index 1

languages.add("JavaScript");//index 2

languages.add("Kotlin");//index 3

System.***out***.println("LinkedList: " + languages);

// remove elements from index 1

String str = languages.remove(1);

System.***out***.println("Removed Element: " + str);

System.***out***.println("Updated LinkedList: " + languages);

}

}

Output:

LinkedList: [Java, Python, JavaScript, Kotlin]

Removed Element: Python

Updated LinkedList: [Java, JavaScript, Kotlin]

Example 5:

package hello;

import java.util.LinkedList;

import java.util.Queue;

public class Linkedlist5 {

public static void main(String[] args) {

Queue<String> languages = new LinkedList<String>();

// add elements

languages.add("Python");

languages.add("Java");

languages.add("C");

System.out.println("LinkedList: " + languages);

// access the first element

//peek() - Returns the head of the queue. ..

String str1 = languages.peek();

System.out.println("Accessed Element: " + str1);

// access and remove the first element

//poll() - Returns and removes the head of the queue.

String str2 = languages.poll();

System.out.println("Removed Element: " + str2);

System.out.println("LinkedList after poll(): " + languages);

// add element at the end

//offer() - Inserts the specified element into the queue.

languages.offer("Angular");

System.out.println("LinkedList after offer(): " + languages);

}

}

Output:

LinkedList: [Python, Java, C]

Accessed Element: Python

Removed Element: Python

LinkedList after poll(): [Java, C]

LinkedList after offer(): [Java, C, Angular]

Example 6:

package hello;

import java.util.LinkedList;

import java.util.Deque;

public class Linkedlist6 {

public static void main(String[] args){

Deque<String> animals = new LinkedList<>();

// add element at the beginning

animals.add("Cow");// index 0

System.out.println("LinkedList: " + animals);

animals.addFirst("Dog");// first element with index 0 [dog,cow]

System.out.println("LinkedList after addFirst(): " + animals);

// add elements at the end

animals.addLast("Zebra");// last element with index 2 should be zebra [dog,cow,zebra]

System.out.println("LinkedList after addLast(): " + animals);

// remove the first element

animals.removeFirst();//which removes first element from the linkedlist[dog]

System.out.println("LinkedList after removeFirst(): " + animals);

// remove the last element

animals.removeLast();//[cow, zebra] removes last element zebra

System.out.println("LinkedList after removeLast(): " + animals);

}

}

Output:

LinkedList: [Cow]

LinkedList after addFirst(): [Dog, Cow]

LinkedList after addLast(): [Dog, Cow, Zebra]

LinkedList after removeFirst(): [Cow, Zebra]

LinkedList after removeLast(): [Cow]

Example 7:

**package** hello;

**import** java.util.LinkedList;

**public** **class** Linkedlist7 {

**public** **static** **void** main(String[] args) {

// Creating a linked list

LinkedList<String> animals = **new** LinkedList<>();

animals.add("Cow");

animals.add("Cat");

animals.add("Dog");

System.***out***.println("LinkedList: " + animals);

// Using forEach loop

System.***out***.println("Accessing linked list elements:");

**for**(String animal: animals) {// for animal in animals:

// for i in fruits:

System.***out***.print(animal);//s.o.p(i)

System.***out***.print(", ");

}

}

}

Output:

LinkedList: [Cow, Cat, Dog]

Accessing linked list elements:

Cow, Cat, Dog,