

OOPM
Programming Assignment number 04

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Batch: A

Roll no. 01

Problem statement:

Print the reverse of given ArrayList by using your own function.

//code

```
import java.util.*;
import java.io.*;

class Array_List {

    static ArrayList<Integer> reverseList(ArrayList<Integer> list) {
        ArrayList<Integer> revList = new ArrayList<Integer>();

        for (int i=(list.size()-1) ; i>=0 ; i--) {
            revList.add(list.get(i));
        }

        return revList;
    }

    public static void main(String args[]) {

        Scanner sc = new Scanner(System.in);

        ArrayList<Integer> list = new ArrayList<Integer>();
        int choice;

        while (true) {
            System.out.println("* 1. ADD");
            System.out.println("* 2. DISPLAY");
            System.out.println("* 3. DISPLAY REVERSE");
            System.out.println("* 4. EXIT!");
            System.out.print("Enter your choice : ");
            choice = sc.nextInt();

            switch (choice) {

                case 1:
                    System.out.print("Enter element to add : ");
                    list.add(sc.nextInt());
                    break;

                case 2:
                    System.out.print("Elements in the list are : ");
                    System.out.print(list);
```

```
System.out.println();  
break;
```

case 3:

```
System.out.print("Reverse of list is : ");  
ArrayList<Integer> revList = new ArrayList<Integer>();  
revList = reverseList(list);  
System.out.print(revList);  
System.out.println();  
break;
```

case 4:

```
System.out.println("*** E X I T I N G ***");  
System.exit(1);  
break;
```

default:

```
System.out.println("Invalid Input");  
break;
```

```
}
```

```
}
```

```
}
```

```
}
```

// output

```
E:\Aamir\Sem-3\OOPM\ArrayList>javac Array_List.java
```

```
E:\Aamir\Sem-3\OOPM\ArrayList>java Array_List
```

```
* 1. ADD
* 2. DISPLAY
* 3. DISPLAY REVERSE
* 4. EXIT!
Enter your choice : 1
Enter element to add : 5
* 1. ADD
* 2. DISPLAY
* 3. DISPLAY REVERSE
* 4. EXIT!
Enter your choice : 1
Enter element to add : 10
* 1. ADD
* 2. DISPLAY
* 3. DISPLAY REVERSE
* 4. EXIT!
Enter your choice : 1
Enter element to add : 15
* 1. ADD
* 2. DISPLAY
* 3. DISPLAY REVERSE
* 4. EXIT!
Enter your choice : 2
Elements in the list are : [5, 10, 15]
* 1. ADD
* 2. DISPLAY
* 3. DISPLAY REVERSE
* 4. EXIT!
Enter your choice : 3
Reverse of list is : [15, 10, 5]
* 1. ADD
* 2. DISPLAY
* 3. DISPLAY REVERSE
* 4. EXIT!
Enter your choice : 4
*** E X I T I N G ***
```

```
E:\Aamir\Sem-3\OOPM\ArrayList>java Array_List
```

```
* 1. ADD
* 2. DISPLAY
* 3. DISPLAY REVERSE
* 4. EXIT!
Enter your choice : 1
Enter element to add : 123
* 1. ADD
* 2. DISPLAY
* 3. DISPLAY REVERSE
* 4. EXIT!
Enter your choice : 1
Enter element to add : 456
* 1. ADD
* 2. DISPLAY
* 3. DISPLAY REVERSE
* 4. EXIT!
Enter your choice : 1
Enter element to add : 789
* 1. ADD
* 2. DISPLAY
* 3. DISPLAY REVERSE
* 4. EXIT!
Enter your choice : 1
Enter element to add : 12
* 1. ADD
* 2. DISPLAY
* 3. DISPLAY REVERSE
* 4. EXIT!
Enter your choice : 2
Elements in the list are : [123, 456, 789, 12]
* 1. ADD
* 2. DISPLAY
* 3. DISPLAY REVERSE
* 4. EXIT!
Enter your choice : 3
Reverse of list is : [12, 789, 456, 123]
* 1. ADD
* 2. DISPLAY
* 3. DISPLAY REVERSE
* 4. EXIT!
Enter your choice : 4
*** E X I T I N G ***
```