

Day - 5 TechM Assignment Outputs (04-02-2025)

Generics:

1) Generics Task1

```
Array1 elements: 1 2 3
Array2 elements: 1 2 3
Are both the arrays equal? : true

Array3 elements: hi hello
Array4 elements: hi Hello
Are both the arrays equal? : false
```

2) Generics Task2

```
List of numbers: [1, 2, 3, 4, 5, 6, 7, 8, 9]
Sum of even numbers: 20
Sum of odd numbers: 25
```

3) Generics Task3

```
Array1 elements: [1, 2, 3, 4, 5, 6]
Index of "4" : 3
Index of "9" : -1

Array2 elements: [Nithish, Vinay, Srikar, Chetan]
Index of "Chetan" : 2
Index of "Akhil" : -1
```

4) Generics Task4

```
Array1 elements: [1, 2, 3, 4, 5, 6]
Reversed Array1: [6, 5, 4, 3, 2, 1]

Array2 elements: [Nithish, Vinay, Srikar, Chetan]
Reversed Array2: [Chetan, Srikar, Vinay, Nithish]
```

5) Generics Task5

```
Before Merging:
[1, 3, 5, 7, 9]
[2, 4, 6, 8]

After Merging: [1, 2, 3, 4, 5, 6, 7, 8, 9]

Before Merging:
[Hi, Hello, Hlo, Hey]
[Nithish, Vinay, Srikar, Chetan]

After Merging: [Hi, Nithish, Hello, Vinay, Hlo, Srikar, Hey, Chetan]
```

Collection Api:

1) Collection Api Task1

```
List of colors: [Black, White, Red, Blue, Green]
```

2) Collection Api Task2

```
Array list elements:  
Black  
White  
Red  
Blue  
Green
```

3) Collection Api Task3

```
Array list elements: [Black, White, Red, Blue, Green]  
  
After inserting an element at the first position:  
[Yellow, Black, White, Red, Blue, Green]
```

4) Collection Api Task4

```
Array list elements: [Black, White, Red, Blue, Green]  
  
Third element of the array list: Red
```

5) Collection Api Task5

```
Array list elements: [Black, White, Red, Blue, Green]  
After updating third element of the list:  
[Black, White, Yellow, Blue, Green]
```

6) Collection Api Task6

```
Array list elements: [Black, White, Red, Blue, Green]  
After removing third element from the list:  
[Black, White, Blue, Green]
```

7) Collection Api Task7

```
Element Found in the array list.
```

8) Collection Api Task8

```
Array list before sorting: [Black, White, Red, Blue, Green]  
Array list after sorting: [Black, Blue, Green, Red, White]
```

9) Collection Api Task9

```
List1 elements: [1, 2, 3, 4]
List2 elements: [Red, Blue, Green, White]

After copying List2 to List1:
List1 elements: [Red, Blue, Green, White]
List2 elements: [Red, Blue, Green, White]
```

10) Collection Api Task10

```
Array list before shuffling:
[Black, White, Red, Blue, Green]

Array list after shuffling:
[Red, Green, White, Blue, Black]
```

11) Collection Api Task11

```
Linked list elements: [Black, White, Red, Blue, Green, Yellow]
```

12) Collection Api Task12

```
Linked list elements:
Black
White
Red
Blue
Green
```

13) Collection Api Task13

```
Linked list from second position:  
White  
Red  
Blue  
Green
```

14) Collection Api Task14

```
Linked list elements:  
[Black, White, Red, Blue, Green]  
  
Linked list elements in Reverse Order:  
Green  
Blue  
Red  
White  
Black
```

15) Collection Api Task15

```
Linked list elements:  
[Black, White, Red, Blue, Green]  
  
After inserting an element at the second position:  
[Black, Yellow, White, Red, Blue, Green]
```

16) Collection Api Task16

```
Linked list elements: [Red, Green, Black]  
  
Linked list after inserting elements at the first and last positions:  
[White, Red, Green, Black, Pink]
```

17) Collection Api Task17

```
Linked list elements:  
[Black, White, Red, Blue, Green]  
  
Inserting an element at the front of a linked list:  
[Yellow, Black, White, Red, Blue, Green]
```

18) Collection Api Task18

```
Linked list elements:  
[Black, White, Red, Blue, Green]  
  
Inserting an element at the end of a linked list:  
[Black, White, Red, Blue, Green, Yellow]
```

19) Collection Api Task19

```
Linked list elements: [Red, Green, Black]  
  
Linked List after inserting some elements at the first position:  
[Red, White, Pink, Green, Black]
```

20) Collection Api Task20

```
Linked list elements:  
[Black, White, Red, Blue, Green]  
  
First Element of linked list is: Black  
  
Last Element of linked list is: Green
```