Assignment No:-52

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Batch: - Delta - DCA (Java) 2024 Date: -24/7/2024

Q1. Write a program to create a stream from a list of integers and print each element.

Q2.Implement a program to filter even numbers from a list using the Stream API.

```
Implementation of the properties of the pro
```

Q3. Write a program to find the sum of all elements in a list using streams.

Q4. Implement a program to find the maximum element from a list using streams.

Q5. Write a program to count the number of elements in a list using streams.

```
| PrintIntege... | EvenStream.java | SumOfElemen... | StreamAPIDem... | CountOfList... | FindMax.java | CountOfList... | CountOfList... | FindMax.java | CountOfList... | CountO
```

Q6. Implement a program to convert a list of strings to uppercase using streams.

Q7. Write a program to sort a list of strings in ascending order using streams.

Q8. Implement a program to find the average of all numbers in a list using streams.

Q9. Write a program to find the square of each element in a list using streams.

Q10. Implement a program to check if all elements in a list are greater than a certain value using streams.

```
I package assignment52.StreamApi.com;

1 package assignment52.StreamApi.com;

2 30 import java.util.ArrayList;
4 import java.util.ArrayS;
5 import java.util.List;
6 import java.util.Scanner;
7 public class CheckGreaterThanCertainValue
9 {
10 public static String isGreater(List<Integer> li, int c)
11 {
12 return li.stream().allMatch(i->i>c)+"";
13 }
140 public static void main(String[] args)
15 {
16 List<Integer> li = new ArrayList(Integer> (Arrays.asList(2, 4, 3, 8, 9, 6, 5))
17 System.out.println("Given list is: "+1i);
18 Scanner sg = new Scanner(system.in);
19 System.out.println("Enter given element: ");
20 int c = sc.nextInt();
21 if(isGreater(li, c) != mull)
22 }
23 System.out.println("Are all elements are greater than "+c+" "+isGreater(li, c) != mull)
24 }
25 }
26 }
27 }
28 }
```

Q11. Write a program to find the first occurrence of a given element in a list using streams.

Q12. Implement a program to find the distinct elements in a list using streams.

Q13. Write a program to remove null values from a list using streams.

Q14. Implement a program to concatenate two lists using streams.

```
PrindCommonCharjava D SorthAscendingjava D FirstOccurrenceOftIstjava X

1 package assignment52.StreamApi.com;

2 import java.util.ArrayList;
4 import java.util.ArrayList;
5 import java.util.List;
6 import java.util.List;
6 import java.util.List;
7 public class ConcateTwoList
9 {
10 public static String isConcat(List<String> li)
11 {
12    List<String> l = new ArrayList<String> ("Apple", "Pinaple", "Orange", "Banana"));
13    System.out.println("second list: "+1);
16    public static void main(String[] args)
18    {
19    List<String> li = new ArrayList<String> (Arrays.asList("java", "c", "c+", "c*"));
20    System.out.println("First list: "+1i);
21    System.out.println("First list: "+1i);
22    System.out.println("Concatination of two list is:\n"+isConcat
23    (lif);
24 }
25 }
```

Q15. Write a program to find the second smallest element in a list using streams.

Q16. Implement a program to partition a list into even and odd numbers using streams.

```
I package assignment52.StreamApi.com;

1 package assignment52.StreamApi.com;

2 import java.util.ArrayList;
4 import java.util.Arrays;
5 import java.util.Arrays;
6 import java.util.Stream.Collectors;
7 public class PartitionOfEvenAndOdd (List<Integer> li)
11 {
12     return li.stream().collect(Collectors.partitioningBy(i->i%2==0))+"";
13     }
14     public static void main(String[] args)
15     {
16         List<Integer> li = new ArrayList<Integer>(Arrays.asList(1,4,3,8,9,6,5));
17         System.out.println("Given list is: "+li);
18         System.out.println("Given even and odd list is:\n"+isEvenAndOdd(li));
19     }
20
21 }
```

Q17. Write a program to group elements of a list by their lengths using streams.

```
I package assignment52.StreamApi.com;

1 package assignment52.StreamApi.com;

2 import java.util.ArrayList;
4 import java.util.ArrayList;
5 import java.util.List;
6 |
7 public class SortByLength | (List<String) | (List<Str
```

Q18. Implement a program to find the most frequently occurring element in a list using streams.

```
I package assignment52.StreamApi.com;

import java.util.ArrayList;
import java.util.ArrayList;
import java.util.ArrayList;
import java.util.Array.
import java.util.Array.
import java.util.Array.
import java.util.Array.
import java.util.Map;
import java.util.Index
import java.util.Stream.
import
```

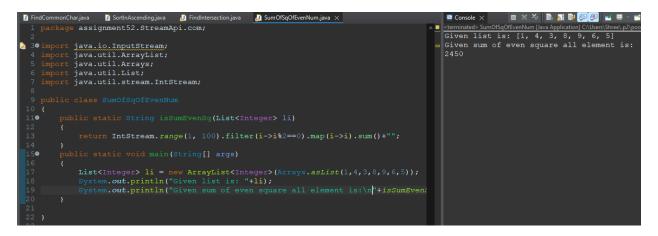
Q19. Write a program to convert a list of integers to a comma-separated string using streams.

Q20. Implement a program to find the longest string in a list using streams.

Q21. Write a program to remove duplicate elements from a list using streams.

Q22. Implement a program to find the intersection of two lists using streams.

Q23. Write a program to create a stream of numbers from 1 to 100 and find the sum of squares of all even numbers.



Q24. Implement a program to find the cumulative sum of elements in a list using streams.

Q25. Write a program to convert a list of strings to a map where the key is the length of the

string and the value is a list of strings of that length using streams.