Java Assignment Number 3

Stream Operations

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ToyStore Assignment1 using stream

Toy.java

```
package day8.Assignment1;
import day6.Manufacture Date;
public class Toy{
   protected int prod id;
   protected String prod name;
   protected double prod price;
   protected Manufacture Date purchase date;
   protected String category;
   protected int age;
   public Toy (int prod id, String prod name, double prod price,
Manufacture Date purchase date, String category , int age)
      this.prod id=prod id;
      this.prod name=prod name;
      this.prod price=prod price;
      this.purchase date=purchase date;
      this.category=category;
      this.age=age;
   public int getProd id() {
      return prod id;
```

```
public void setProd id(int prod id) {
   this.prod id = prod id;
public String getProd name() {
   return prod name;
public void setProd name(String prod name) {
   this.prod name = prod name;
public double getProd price() {
   return prod price;
public void setProd price(double prod price) {
   this.prod price = prod price;
public Manufacture Date getPurchase date() {
   return purchase date;
public void setPurchase date(Manufacture Date purchase date) {
   this.purchase date = purchase_date;
public int getAge() {
   return age;
public void setAge(int age) {
   this.age = age;
public String getCategory() {
   return category;
```

```
public void setCategory(String category) {
    this.category = category;
}

@Override
public String toString() {
    return "Toy{" +
        " prod_name='" + prod_name + '\'' +
        ", prod_price=" + prod_price +
        ", category='" + category + '\'' +
        ", age=" + age +
        ''}';
}
```

Stock.java

```
package day8.Assignment1;
import day6.Manufacture_Date;
import java.util.*;
import java.util.function.Predicate;
import java.util.stream.Collectors;
import java.util.stream.Stream;

public class Stock {

    Stream<Toy> stream;
    Comparator<Toy> byPrice =
Comparator.comparing(Toy::getProd_price);
    // Printing Stock
    public void print_Stock(List <Toy> toyList)
```

```
stream = toyList.stream();
      stream.forEach(System.out::println);
   // Filtering stock by catrgory and printing it....
   public void filter by category(List <Toy> toyList, String
      stream = toyList.stream();
stream.filter((toy)->toy.getCategory().equalsIgnoreCase(category)
).forEach(System.out::println);
   //Displaying toys by price range
   public void toys by priceRange(List <Toy> toyList, double
maxPrice, double minPrice)
      stream = toyList.stream();
                                                       // instead
      stream.filter((toy)->{
of writing predicate separately we write it in stream
             if(toy.getProd price()>=minPrice &&
toy.getProd price() <= maxPrice)</pre>
                 return true;
             else
                return false;
             .forEach(System.out::println);
   // sorting toy by category and then by price
   public void sort toys by category and price wise(List<Toy>
toyList)
Comparator.comparing(Toy::getCategory).thenComparing(byPrice);
      stream = toyList.stream();
      stream.sorted(byCategory).forEach(System.out::println);
```

```
// using predicate interface for sorting the toys older than an
   public void older stock list(List<Toy> toyList)
      Manufacture Date current date = new
Manufacture Date(10,2024);
      stream = toyList.stream();
      Predicate<Toy> old stock = (toy)->{
if (current date.getYear()-toy.getPurchase date().getYear()>1)
             return true;
          else if
(current date.getYear()-toy.getPurchase date().getYear()==1)
if (current date.getMonth()-toy.getPurchase date().getMonth()>0)
                return true;
             else
                return false;
          else
             return false;
       stream.filter(old stock).forEach(System.out::println);
   // Collecting Toy object in a map by giving key as category and
object as their key
   public void count toys category wise(List<Toy> toyList)
      stream = toyList.stream();
      Map<String, List<Toy>> count toys =
stream.collect(Collectors.groupingBy(Toy::getCategory));
      count toys.forEach((toykey, toylist) ->
System.out.println(toykey + ": " + toylist)); // printing the map
      System.out.println("Count of Toys as per category : ");
      count toys.forEach((toykey, toylist) ->
System.out.println(toykey + " : " + toylist.size())); // printing
the key and the size of the list
```

```
// comparing toy by their price and printing the max valued toy
   public void most expensive toy(List<Toy> toyList)
      stream= toyList.stream();
      Map<String, Optional<Toy>> count toys =
stream.collect(Collectors.groupingBy(Toy::getCategory,Collectors.
maxBy(byPrice)));
      count toys.forEach((key, value) -> System.out.println(key+":
"+value));
   // comparing toy by their price and printing the max valued toy
   public void least expensive toy(List<Toy> toyList)
      stream= toyList.stream();
      Map<String, Optional<Toy>> count toys =
stream.collect(Collectors.groupingBy(Toy::getCategory,Collectors.
minBy(byPrice)));
      count toys.forEach((key, value) -> System.out.println(key+":
"+value));
   // Number of toys in an age group
   public void total toys age group wise(List<Toy> toyList, int age)
      stream = toyList.stream();
      Long agecount =
stream.filter((toy) -> (toy.getAge() >= age)).collect(Collectors.coun
      System.out.println("Age: "+age+", and number of toys in this
group : "+agecount);
```

ToyStore.java

```
import day6.Manufacture Date;
import java.util.ArrayList;
import java.util.List;
public class ToyStore {
  public static void main(String[] args) {
     Stock stock = new Stock();
     List<Toy> toyList = new ArrayList<>();
     toyList.add(new Toy(101, "bicycle", 5000, new
Manufacture Date(6,2022), "Battery operated", 4));
     toyList.add(new Toy(201, "bike", 10000, new
Manufacture Date(9,2023), "Battery operated", 7));
     toyList.add(new Toy(501, "car", 15000, new
Manufacture Date(1,2023), "Battery operated", 5));
     toyList.add(new Toy(601, "doll", 2500, new
Manufacture Date(10,2023), "Educational", 8));
     toyList.add(new Toy(401, "puzzle", 1000, new
Manufacture Date(8,2024), "Educational", 3));
     toyList.add(new Toy(301, "bat", 1500, new
Manufacture Date(11,2022), "Educational", 6));
     System.out.println("-----List of All the Toys available in
the Stock----");
     stock.print Stock(toyList);
System.out.println("-----Filtering Stock by
Category----");
     stock.filter by category(toyList, "educaTional");
========""" ;
     System.out.println("-----List of Toys in a price
range----");
     stock.toys by priceRange(toyList, 15000, 5000);
System.out.println("-----Sorting Toys by categories and
```

```
then by price----");
   stock.sort toys by category and price wise (toyList);
System.out.println("-----List of Stock older than
an Year----");
   stock.older stock list(toyList);
========""";
   System.out.println("-----Count of Toys as per their
categories----");
   stock.count toys category wise (toyList);
System.out.println("-----Most Expensive
Toy-----'');
   stock.most expensive toy(toyList);
System.out.println("-----Least Expensive
Toy----");
   stock.least_expensive toy(toyList);
System.out.println("-----Toy By age
group----");
   for(Toy toy : toyList)
    stock.total toys age group wise(toyList,toy.getAge());
```

Output:

```
"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\Intelli
 -----List of All the Toys available in the Stock------
Toy{ prod_name='bicycle', prod_price=5000.0, category='Battery operated', age=4}
Toy{ prod_name='bike', prod_price=10000.0, category='Battery operated', age=7}
Toy{ prod_name='car', prod_price=15000.0, category='Battery operated', age=5}
Toy{ prod_name='doll', prod_price=2500.0, category='Educational', age=8}
Toy{ prod_name='puzzle', prod_price=1000.0, category='Educational', age=3}
Toy{ prod_name='bat', prod_price=1500.0, category='Educational', age=6}
 -----Filtering Stock by Category------
Toy{ prod_name='doll', prod_price=2500.0, category='Educational', age=8}
Toy{ prod_name='puzzle', prod_price=1000.0, category='Educational', age=3}
Toy{ prod_name='bat', prod_price=1500.0, category='Educational', age=6}
 -----List of Toys in a price range-----
Toy{ prod_name='bicycle', prod_price=5000.0, category='Battery operated', age=4}
Toy{ prod_name='bike', prod_price=10000.0, category='Battery operated', age=7}
Toy{ prod_name='car', prod_price=15000.0, category='Battery operated', age=5}
 -----Sorting Toys by categories and then by price-------
Toy{ prod_name='bicycle', prod_price=5000.0, category='Battery operated', age=4}
Toy{ prod_name='bike', prod_price=10000.0, category='Battery operated', age=7}
Toy{ prod_name='car', prod_price=15000.0, category='Battery operated', age=5}
Toy{ prod_name='puzzle', prod_price=1000.0, category='Educational', age=3}
Toy{ prod_name='bat', prod_price=1500.0, category='Educational', age=6}
Toy{ prod_name='doll', prod_price=2500.0, category='Educational', age=8}
             ------List of Stock older than an Year--
Toy{ prod_name='bicycle', prod_price=5000.0, category='Battery operated', age=4}
Toy{ prod_name='bicycle', prod_price=5800.0, category='Battery operated', age=4}
Toy{ prod_name='bike', prod_price=10808.0, category='Battery operated', age=7}
Toy{ prod_name='bat', prod_price=1500.0, category='Educational', age=6}
    ---Count of Toys as per their categories--
Educational : [Toy{ prod_name='doll', prod_price=2500.0, category='Educational', age=8}, Toy{ prod_name='puzzle', prod_price=1000.0, category='Educational', age=3}, Toy{ prod_name='puzzle', prod_price=1000.0, category='Educational', age=3}, Toy{ prod_name='bike', prod_price=10000.0, category='Battery operated'
        --Most Expensive Toy--
        --Least Expensive Toy--
Battery operated : Optional[Toy{ prod_name='bicycle', prod_price=5000.0, category='Battery operated', age=4}]
     -----Tov By age group
Age : 6, and number of toys in this group :
```

.....

Written Output:

"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.2\lib\idea rt.jar=55077:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.2\bin" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath C:\Users\DAI.STUDENTSDC\Desktop\Abhsihek\Java\Day1\out\production\Java day8.Assignment1.ToyStore -----List of All the Toys available in the Stock------Toy{ prod_name='bicycle', prod_price=5000.0, category='Battery operated', age=4} Toy{ prod_name='bike', prod_price=10000.0, category='Battery operated', age=7} Toy{ prod_name='car', prod_price=15000.0, category='Battery operated', age=5} Toy{ prod_name='doll', prod_price=2500.0, category='Educational', age=8} Toy{ prod name='puzzle', prod price=1000.0, category='Educational', age=3} Toy{ prod name='bat', prod price=1500.0, category='Educational', age=6} ______ -----Filtering Stock by Category------Toy{ prod name='doll', prod price=2500.0, category='Educational', age=8} Toy{ prod_name='puzzle', prod_price=1000.0, category='Educational', age=3} Toy{ prod name='bat', prod price=1500.0, category='Educational', age=6} _______ -----List of Toys in a price range-----Toy{ prod_name='bicycle', prod_price=5000.0, category='Battery operated', age=4} Toy{ prod_name='bike', prod_price=10000.0, category='Battery operated', age=7} Toy{ prod_name='car', prod_price=15000.0, category='Battery operated', age=5} -----Sorting Toys by categories and then by price-----Toy{ prod_name='bicycle', prod_price=5000.0, category='Battery operated', age=4} Toy{ prod name='bike', prod price=10000.0, category='Battery operated', age=7}

```
Toy{ prod_name='car', prod_price=15000.0, category='Battery operated', age=5}
Toy{ prod_name='puzzle', prod_price=1000.0, category='Educational', age=3}
Toy{ prod name='bat', prod_price=1500.0, category='Educational', age=6}
Toy{ prod name='doll', prod price=2500.0, category='Educational', age=8}
______
-----List of Stock older than an Year------
Toy{ prod_name='bicycle', prod_price=5000.0, category='Battery operated', age=4}
Toy{ prod name='bike', prod price=10000.0, category='Battery operated', age=7}
Toy{ prod_name='car', prod_price=15000.0, category='Battery operated', age=5}
Toy{ prod_name='bat', prod_price=1500.0, category='Educational', age=6}
______
-----Count of Toys as per their categories-----
Educational: [Toy{ prod name='doll', prod price=2500.0, category='Educational', age=8},
Toy{ prod_name='puzzle', prod_price=1000.0, category='Educational', age=3}, Toy{ prod_name='bat',
prod price=1500.0, category='Educational', age=6}]
Battery operated: [Toy{ prod_name='bicycle', prod_price=5000.0, category='Battery operated', age=4},
Toy{ prod name='bike', prod price=10000.0, category='Battery operated', age=7},
Toy{ prod_name='car', prod_price=15000.0, category='Battery operated', age=5}]
Count of Toys as per category:
Educational: 3
Battery operated: 3
______
------Most Expensive Toy------
Educational: Optional[Toy{ prod name='doll', prod price=2500.0, category='Educational', age=8}]
Battery operated: Optional[Toy{ prod name='car', prod price=15000.0, category='Battery operated',
age=5}]
______
-----Least Expensive Toy------
Educational: Optional[Toy{ prod_name='puzzle', prod_price=1000.0, category='Educational', age=3}]
Battery operated: Optional[Toy{ prod_name='bicycle', prod_price=5000.0, category='Battery operated',
```

```
age=4}]
______
-----Toy By age group-----
Age: 4, and number of toys in this group: 5
Age: 7, and number of toys in this group: 2
Age: 5, and number of toys in this group: 4
Age: 8, and number of toys in this group: 1
Age: 3, and number of toys in this group: 6
Age: 6, and number of toys in this group: 3
Process finished with exit code 0
______
TweeterApp Assignment2
Tweet.java
```

```
package day8.Assignment1;
import java.time.LocalDate;
import java.util.Set;

public class Tweet {
    private String subject;
    private LocalDate dateOfPost;
    private int views;
    Set<String> hashtags;

public Tweet(String subject, LocalDate dateOfPost, int views,
Set<String> hashtags) {
    this.subject = subject;
```

```
this.dateOfPost = dateOfPost;
   this.views = views;
   this.hashtags = hashtags;
public String getSubject() {
  return subject;
public void setSubject(String subject) {
   this.subject = subject;
public LocalDate getDateOfPost() {
   return dateOfPost;
public void setDateOfPost(LocalDate dateOfPost) {
   this.dateOfPost = dateOfPost;
public int getViews() {
  return views;
public void setViews(int views) {
  this.views = views;
public Set<String> getHashtags() {
   return hashtags;
public void setHashtags(Set<String> hashtags) {
   this.hashtags = hashtags;
@Override
public String toString() {
   return "Tweet{" +
          "subject='" + subject + '\'' +
          ", dateOfPost=" + dateOfPost +
          ", views=" + views +
          ", hashtags=" + hashtags +
          1 } 1 ;
```

Tweeter.java

```
package day8.Assignment1;
import java.time.LocalDate;
import java.util.*;
import java.util.stream.Collectors;
import java.util.stream.Stream;
public class Tweeter {
   Stream<Tweet> stream;
   public void list all tweets current month(List<Tweet> tweets) {
      LocalDate today = LocalDate.now();
      stream = tweets.stream();
      stream.filter(t -> t.getDateOfPost().getMonthValue() ==
today.getMonthValue()).forEach(System.out::println);
   public void list all tweets for hashtags(List<Tweet> tweets) {
      stream = tweets.stream();
      Map<String, List<Tweet>> hashtags = stream.flatMap(tweet ->
tweet.getHashtags().stream().map(hashtag -> Map.entry(hashtag,
tweet)))
             .collect(Collectors.groupingBy(Map.Entry::getKey,
Collectors.mapping(Map.Entry::getValue, Collectors.toList())));
      hashtags.forEach((k, v) -> System.out.println("Hashtags: " +
k + ", Tweets: " + v));
   public void count tweets by subject(List<Tweet> tweets) {
      stream = tweets.stream();
      Map<String, Long> counts =
stream.collect(Collectors.groupingBy(Tweet::getSubject,
Collectors.counting());
      counts.forEach((k, v) -> System.out.println("Subject: " + k
+ ", Count: " + v));
   public void
```

```
list all tweets with more than 10000 views(List<Tweet> tweets) {
      stream = tweets.stream();
      stream.filter(t -> t.getViews() >
10000).forEach(System.out::println);
   public void list top5 trending tweets(List<Tweet> tweets) {
      stream = tweets.stream();
stream.sorted(Comparator.comparingInt(Tweet::getViews).reversed()
).limit(5).forEach(System.out::println);
   public static void main(String[] args) {
      Tweeter t = new Tweeter();
      List<Tweet> tweets = new ArrayList<>();
      tweets.add(new Tweet("Discussing on IQ", LocalDate.of(2024,
10, 12), 15000, Set.of("#discussion", "#IQ")));
      tweets.add(new Tweet("Weather Update", LocalDate.of(2022, 5,
13), 1000, Set.of("#weather", "#flood", "#update")));
      tweets.add(new Tweet("Festival Celebration",
LocalDate.of(2021, 12, 16), 150000, Set.of("#festival",
"#celebration")));
      tweets.add(new Tweet("Traffic Jam", LocalDate.of(2022, 11,
29), 2000, Set. of ("#traffic", "#punerains", "city")));
      tweets.add(new Tweet("Food Recipe", LocalDate.of(2021, 4, 5),
35000, Set.of("#food", "#receipe")));
      tweets.add(new Tweet("Health Tips", LocalDate.of(2022, 8, 23),
155000, Set.of("#health", "#tips")));
      tweets.add(new Tweet("Sports Update", LocalDate.of(2024, 10,
13), 19000, Set.of("#sports", "#game", "#update")));
      tweets.add(new Tweet("Discussing on EQ", LocalDate.of(2023,
6, 12), 12000, Set.of("#discussion", "#EQ")));
      System.out.println("List of all the tweets of the current
month :");
      t.list all tweets current month(tweets);
System.out.println("-----
      System.out.println("List of all tweets with hashtags:");
      t.list all tweets for hashtags(tweets);
System.out.println("--
      System.out.println("Count of tweets by subject :");
```

```
t.count_tweets_by_subject(tweets);

System.out.println("-----");
    System.out.println("List of tweets with more than 10,000
views :");
    t.list_all_tweets_with_more_than_10000_views(tweets);

System.out.println("-----");
    System.out.println("Top 5 trending tweets :");
    t.list_top5_trending_tweets(tweets);
}
```

Output:

```
"C:\Program Files\Java\jdk-21\bin\java.axe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.2\lib\idea_rt.jar=55109:C:\Program Files\JetBrains\Isiat of all the texets of the current aonth :

Iweet(subject=1)iscussing on 10', date0fPost=2024-10-12, views=15000, hashtags=[#discussion, #IQ]}

Reet(subject=1)iscussing on 10', date0fPost=2024-10-13, views=15000, hashtags=[#discussion, #IQ]}

List of all tweets with hashtags:

Hashtags: #festival, Texets: [Tweet(subject=1)iscussing on 10', date0fPost=2021-10-16, views=150000, hashtags=[#festival, #colebration]}]

Hashtags: #festival, Tweets: [Tweet(subject=1)iscussing on 10', date0fPost=2022-11-29, views=2000, hashtags=[filod, #manthags]}]

Hashtags: #colebration, Tweets: [Tweet(subject=1)iscussing on 10', date0fPost=2022-11-20, views=2000, hashtags=[#festival, #colebration]}]

Hashtags: #colebration, Tweets: [Tweet(subject=1)iscussing on 10', date0fPost=2022-10-13, views=15000, hashtags=[#festival, #colebration]}]

Hashtags: #colebration, Tweets: [Tweet(subject=1)iscussing on 10', date0fPost=2022-10-12, views=15000, hashtags=[#festival, #colebration]}]

Hashtags: #colebration, Tweets: [Tweet(subject=1)iscussing on 10', date0fPost=2022-10-12, views=15000, hashtags=[#festival, #colebration]}]

Hashtags: #colebration, Tweets: [Tweet(subject=1)iscussing on 10', date0fPost=2022-10-12, views=15000, hashtags=[#festival, #colebration]}]

Hashtags: #colepr. Tweets: [Tweet(subject=1)iscussing on 10', date0fPost=2022-10-12, views=15000, hashtags=[#festival, #colebration]]}]

Hashtags: #colepr. Tweets: [Tweet(subject=1)iscussing on EQ', date0fPost=2022-08-23, views=15000, hashtags=[#festival, #colebration]]]

Hashtags: #colepr. Tweets: [Tweet(subject=1)iscussing on EQ', date0fPost=2022-08-23, views=12000, hashtags=[#festival, #colebration]]]

Hashtags: #cole, Tweets: [Tweet(subject=1)iscussing on EQ', date0fPost=2022-08-23, views=12000, hashtags=[#festival, #colebration]]]

Hashtags: #cole, Tweets: [Tweet(subject=1)iscussing on EQ', date0fPost=2022
```

```
Hashtags: #tips, Tweets: [Tweet{subject='Health Tips', dateOfPost=2022-08-23, views=155000, hashtags=[#health, #tips]}]
Hashtags: #food, Tweets: [Tweet{subject='Food Recipe', dateOfPost=2021-04-05, views=35000, hashtags=[food, #heceipe]}]
Hashtags: #punerains, Tweets: [Tweet{subject='Traffic Jam', dateOfPost=2022-11-29, views=2000, hashtags=[city, #traffic, #punerains]}]

Count of tweets by subject:
Subject: Health Tips, Count: 1
Subject: Food Recipe, Count: 1
Subject: Discussing on IQ, Count: 1
Subject: Weather Update, Count: 1
Subject: Weather Update, Count: 1
Subject: Weather Update, Count: 1
Subject: Food Recipe', dateOfPost=2024-10-12, views=15000, hashtags=[#discussion, #IQ]}
Tweet{subject='Food Recipe', dateOfPost=2024-10-12, views=15000, hashtags=[#discussion, #Leebration]}
Tweet{subject='Food Recipe', dateOfPost=2022-08-23, views=155000, hashtags=[#health, #tips]}
Tweet{subject='Food Recipe', dateOfPost=2022-10-13, views=19000, hashtags=[#health, #tips]}
Tweet{subject='Discussing on EQ', dateOfPost=2022-08-23, views=155000, hashtags=[#health, #tips]}
Tweet{subject='Discussing on EQ', dateOfPost=2022-08-23, views=15000, hashtags=[#discussion, #EQ]}
Top 5 trending tweets:
Tweet{subject='Pood Recipe', dateOfPost=2022-08-23, views=15000, hashtags=[#health, #tips]}
Tweet{subject='Food Recipe', dateOfPost=2022-08-23, views=35000, hashtags=[#health, #tips]}
Tweet{subject='Food Recipe', dateOfPost=2021-08-08, views=35000, hashtags=[#health, #tips]}
Tweet{subject='Food Recipe', dateOfPost=2021-08-08, views=35000, hashtags=[#health, #tips]}
Tweet{subject='Food Recipe', dateOfPost=2021-08-08, views=35000, hashtags=[#health, #tips]}
Twee
```

Written Output:

"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.2\lib\idea_rt.jar=55109:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.2\bin" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath C:\Users\DAI.STUDENTSDC\Desktop\Abhsihek\Java\Day1\out\production\Java day8.Assignment1.Tweeter

List of all the tweets of the current month:

Tweet{subject='Discussing on IQ', dateOfPost=2024-10-12, views=15000, hashtags=[#discussion, #IQ]}

Tweet{subject='Sports Update', dateOfPost=2024-10-13, views=19000, hashtags=[#sports, #game, #update]}

List of all tweets with hashtags:

Hashtags: #festival, Tweets: [Tweet{subject='Festival Celebration', dateOfPost=2021-12-16, views=150000, hashtags=[#festival, #celebration]}]

Hashtags: #weather, Tweets: [Tweet{subject='Weather Update', dateOfPost=2022-05-13,

```
views=1000, hashtags=[#flood, #weather, #update]}]
```

Hashtags: city, Tweets: [Tweet{subject='Traffic Jam', dateOfPost=2022-11-29, views=2000, hashtags=[city, #traffic, #punerains]}]

Hashtags: #celebration, Tweets: [Tweet{subject='Festival Celebration', dateOfPost=2021-12-16, views=150000, hashtags=[#festival, #celebration]}]

Hashtags: #game, Tweets: [Tweet{subject='Sports Update', dateOfPost=2024-10-13, views=19000, hashtags=[#sports, #game, #update]}]

Hashtags: #IQ, Tweets: [Tweet{subject='Discussing on IQ', dateOfPost=2024-10-12, views=15000, hashtags=[#discussion, #IQ]}]

Hashtags: #discussion, Tweets: [Tweet{subject='Discussing on IQ', dateOfPost=2024-10-12, views=15000, hashtags=[#discussion, #IQ]}, Tweet{subject='Discussing on EQ', dateOfPost=2023-06-12, views=12000, hashtags=[#discussion, #EQ]}]

Hashtags: #receipe, Tweets: [Tweet{subject='Food Recipe', dateOfPost=2021-04-05, views=35000, hashtags=[#food, #receipe]}]

Hashtags: #EQ, Tweets: [Tweet{subject='Discussing on EQ', dateOfPost=2023-06-12, views=12000, hashtags=[#discussion, #EQ]}]

Hashtags: #health, Tweets: [Tweet{subject='Health Tips', dateOfPost=2022-08-23, views=155000, hashtags=[#health, #tips]}]

Hashtags: #traffic, Tweets: [Tweet{subject='Traffic Jam', dateOfPost=2022-11-29, views=2000, hashtags=[city, #traffic, #punerains]}]

Hashtags: #flood, Tweets: [Tweet{subject='Weather Update', dateOfPost=2022-05-13, views=1000, hashtags=[#flood, #weather, #update]}]

Hashtags: #update, Tweets: [Tweet{subject='Weather Update', dateOfPost=2022-05-13, views=1000, hashtags=[#flood, #weather, #update]}, Tweet{subject='Sports Update', dateOfPost=2024-10-13, views=19000, hashtags=[#sports, #game, #update]}]

Hashtags: #sports, Tweets: [Tweet{subject='Sports Update', dateOfPost=2024-10-13, views=19000, hashtags=[#sports, #game, #update]}]

Hashtags: #tips, Tweets: [Tweet{subject='Health Tips', dateOfPost=2022-08-23, views=155000, hashtags=[#health, #tips]}]

Hashtags: #food, Tweets: [Tweet{subject='Food Recipe', dateOfPost=2021-04-05, views=35000, hashtags=[#food, #receipe]}]

Hashtags: #punerains, Tweets: [Tweet{subject='Traffic Jam', dateOfPost=2022-11-29, views=2000, hashtags=[city, #traffic, #punerains]}]

Count of tweets by subject :
Subject: Health Tips, Count: 1
Subject: Traffic Jam, Count: 1
Subject: Food Recipe, Count: 1
Subject: Discussing on IQ, Count: 1
Subject: Festival Celebration, Count: 1
Subject: Discussing on EQ, Count: 1
Subject: Sports Update, Count: 1
Subject: Weather Update, Count: 1
List of tweets with more than 10,000 views:
Tweet{subject='Discussing on IQ', dateOfPost=2024-10-12, views=15000, hashtags=[#discussion, #IQ]}
Tweet{subject='Festival Celebration', dateOfPost=2021-12-16, views=150000, hashtags=[#festival, #celebration]}
Tweet{subject='Food Recipe', dateOfPost=2021-04-05, views=35000, hashtags=[#food, #receipe]}
Tweet{subject='Health Tips', dateOfPost=2022-08-23, views=155000, hashtags=[#health, #tips]}
Tweet{subject='Sports Update', dateOfPost=2024-10-13, views=19000, hashtags=[#sports, #game, #update]}
Tweet{subject='Discussing on EQ', dateOfPost=2023-06-12, views=12000, hashtags=[#discussion, #EQ]}
Top 5 trending tweets:
Tweet{subject='Health Tips', dateOfPost=2022-08-23, views=155000, hashtags=[#health, #tips]}
Tweet{subject='Festival Celebration', dateOfPost=2021-12-16, views=150000, hashtags=[#festival, #celebration]}

Tweet{subject='Food Recipe', dateOfPost=2021-04-05, views=35000, hashtags=[#food,

#receipe]}

Tweet{subject='Sports Update', dateOfPost=2024-10-13, views=19000, hashtags=[#sports, #game, #update]}

Tweet{subject='Discussing on IQ', dateOfPost=2024-10-12, views=15000, hashtags=[#discussion, #IQ]}

Process finished with exit code 0