Date and Time :-

```
package org.exception;
import java.time.LocalDate;
import java.time.LocalDateTime;
import java.time.LocalTime;
import java.time.format.DateTimeFormatter;
public class FileIo {
  public static void main (String [] args) {
  LocalDate date =LocalDate.now();
  System.out.println(date);
 LocalTime time = LocalTime.now();
 System.out.println(time);
 LocalDateTime datetime =LocalDateTime.now();
 System.out.println("Before Formatting:"+datetime);
 System.out.println("After Formatting:");
 DateTimeFormatter NeedPattern =DateTimeFormatter.ofPattern
                                ("dd/MM/yyyy HH:mm:ss
 String format = dateTime.format(NeedPattern);
 System.out.println(format);
  }
}
```

Types of Memory Areas allocated by JVM:-

* Class (Method) Area
* Heap
* Stacks
* Program Counter Register
* Native Method stacks.

1. Count of each character in given String:-

```
package org.test;
import java.util.LinkedHashMap;
import java.util.Map;
public class Employee {
  public static void main(String[] args) {
      String name = "Welcome";
      Map<Character, Integer> emp = new LinkedHashMap();
      char[] ch = name.toCharArray();
      for(char c : ch) {
       if(emp.containsKey(c)) {
          int count = emp.get(c);
          emp.put(c, count+1);
      } else {
          emp.put(c, 1);
      }
      System.out.println(emp);
  } }
```

Count of word in a given String:-

```
package org.test;
import java.util.LinkedHashMap;
import java.util.Map;
public class Employee {
public static void main (String[] args) {
String name = "Welcome to java Sql java to java Sql Psql;
String[] x = name.Split(" ");
Map<String, Integer> emp = new LinkedHashMap<>();
for (String v : x) {
  if(emp.containskey(v)){
    int count = emp.get(v);
    emp.put (v, Count+1);
  } else {
      emp.put(v, 1);
  }
 }
System.out.pointen(emp);
 }
}
```

3. Convert String into init Cap :-

```
package org.test;
public class Employee {
 public static void main (String[] args) {
String name = "Welcome to java Sql java to java Sql";
String [] x = name.Split(" ");
String res = " ";
1.  for (String v: x) {
  String first = v.Substring(0,1);
  String after = v.SubString(1);
  res = res + first.toUpperCase()+after " ";
  ~~res =~~
  }
  // System.out.println(res);
  System.out.println(res.trim());
  }
}
```