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## Agenda

```
Arrays

Multidimensional

Ragged

Variable Arity/Argument Method

String

StringBuffer & StringBuilder

String Tokenizer

enum
```

#### Single Dimensional Array (Demo01 & Demo02)

## MultiDimensional Array (Demo03 & Demo04)

```
- For a multildimensional array we have array inside another array.
```

```
- Let us take an example of 2D Array in java
```

```
// primitive type
int arr[][] = new int[5][3];

//reference type
Employee [][] empArr = new Employee[3][2];
```

## Ragged Array (Demo05 & Demo06)

- It is an multidimensional array where column size is not fixed

```
// primitive type
int arr[][] = new int[2][];
arr[0] = new int[2];
arr[1] = new int[4];

//reference type
Employee [][] empArr = new Employee[2][];
empArr[0] = new Employee[2];
empArr[1] = new Employee[4];
```

## Variable Arity/Argument Method (Demo07)

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```
public void add(int ... num1) {
    int result = 0;
    for(int i:num1)
        result = result+i;
    System.out.println("Addition = "+result);
}
```

#### String (Demo08 to Demo11)

```
String is a reference type in java
We can create a string value in two ways
```

```
String name1 = "sunbeam";//literal
String name2 = new String("sunebam")// object
```

- If we create one of more reference with same literal as of previous then both the references will point at same literal in the literal pool.
- If we cretae one more object with same value as that of previous object then both the references will point at different objects in the memory
- We can check the literals for equality using == operator while for objects we need to use equals() of string class
- If we use + operator to concat string then literal gets created
- If we use concat() to concat string then string object is created
- If we create a new String reference and use already created reference to assign to it then a new String object is created.
- String is immutable. once created you cannot change its value

## StringBuffer & StringBuilder (Demo12)

- StringBufffer and StringBuilder are both mutabale classes
- StringBuffer is threadsafe while StringBuilder is not.
- -equals and hashcode methods are not overriden inside StringBuilder and StringBuffer class

# String Tokenizer (Demo13)

- If you want to split the string into token use this class.
- You have to cretae the object of this StringTokenizer class to call the methods inside it.

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# enum (Demo14 to Demo16)

## Labflow

Single Dimension Array MultiDimension \*\*\*String String Tokeninzer enum