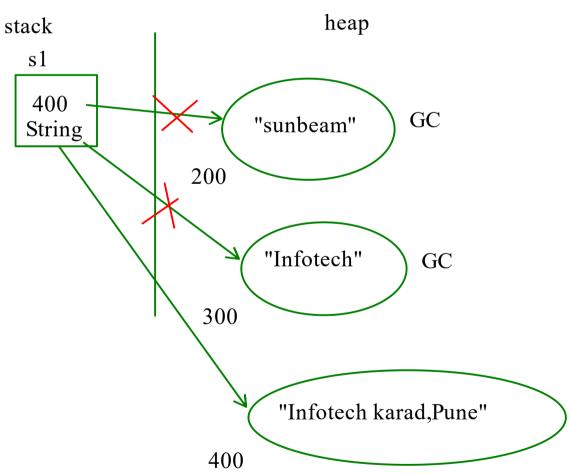
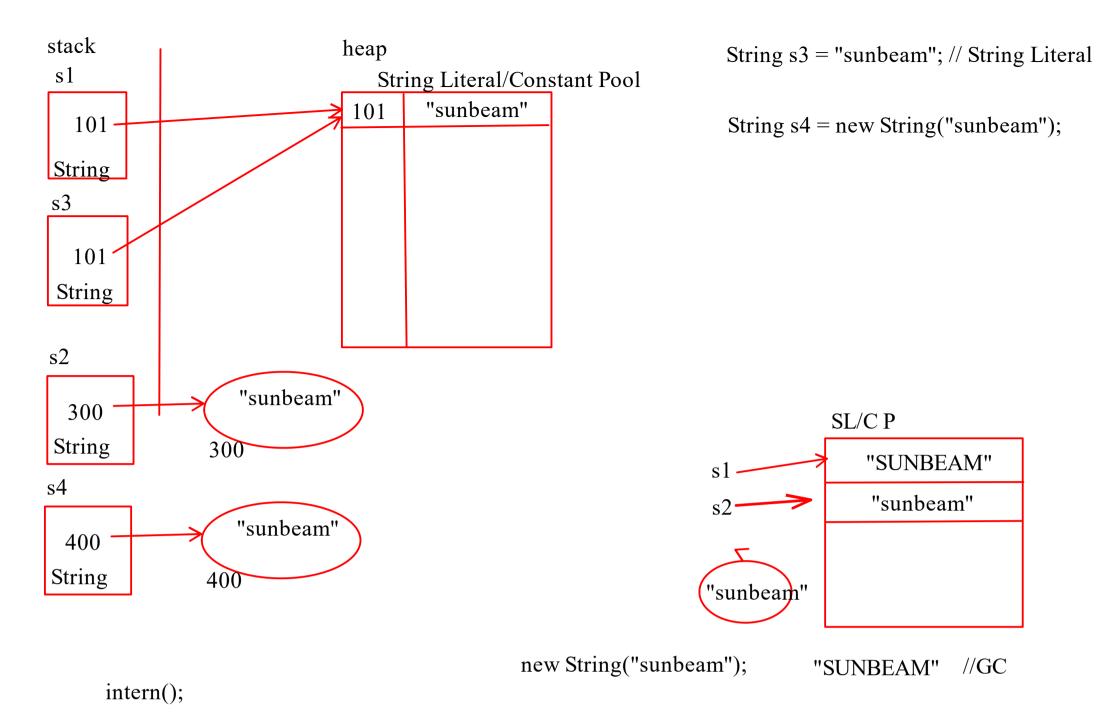
```
Exception
                 Throwable
                                 try -> It is a block used to check if the statementsi inside it are
Error
                                      generating an exception
                                 catch-> It is block that is used to handle the exception
try(){
                                 throw -> Used to generate a new exception
            throw checked
                                 throws -> used for exception routing from current method to the caller method
}catch(){
                                 finally -> a block used to close the resources
                               Checked
                               Unchecked
     getAllEmployees()throws{
                                                        main(){
     select * from employees;
                                                         try {
     if(result==null)
                                                         getAllEmployees();
         throw SQLException;
     }
                                                         catch(){
              m1()throws{
                               m2() throws checked{
main(){
                                throw checked;
try {
              m2();
m1();
catch(){
String
                                                                        String s1 = "sunbeam";
- It is a class in java.lang package
- String class is immutable
                                                                        s1 = "Infotech";
                                                                         s1 = s1 + "karad,Pune";
                                          heap
        stack
           s1
```

String name = "rohan";



String s1 = "sunbeam"; // String literal String s2 = new String("sunbeam");



String

- Oject of String class is immutable
- It is used to work with String literals
- equals and hashcode method from object class are overriden inside String class

String Buffer

- Object of StringBuffer class is mutable
- It cannot work directly with String literals.
- equals and hashcode method from object class are not overriden inside this class
- It is a thread-safe class.

String Builder

- Object of StringBuilder class is mutable
- It cannot work directly with String literals.
- equals and hashcode method from object class are not overriden inside this class
- It is not a thread-safe class.

StringTokenizer

- A class that is used to split the strings into tokens based on the delimeter provided

```
enum ArithmeticOperations {
EXIT,ADD,SUB,MUL
}
```

```
enum ArithmeticOperations {
EXIT,ADD,SUB,MUL
 final class ArithmeticOperations extends Enum{
     public static final ArithmeticOperations EXIT;
     public static final ArithmeticOperations ADD;
     public static final ArithmeticOperations SUB;
     public static final ArithmeticOperations MUL;
     private static final ArithmeticOperations[] ENUM$VALUES;
     private ArithmeticOperations(String name, int ordinal){
          super(name,ordinal);
      }
     static {
          EXIT = new ArithmeticOperations("EXIT",0);
          ADD = new ArithmeticOperations("ADD",1);
          SUB = new ArithmeticOperations("SUB",2);
          MUL = new ArithmeticOperations("MUL",3);
          ENUM$VALUES = {EXIT,ADD,SUB,MUL};
      }
     public static ArithmeticOperations[] values(){
         return ENUM$VALUES;
     public static ArithmeticOperations valueof(String s1){
          for(ArithmeticOperations element: ENUM$VALUES)
              if(element.name().equals(s1))
                  return element;
         return null;
                                                         class Outer{
Lab Work -
                                                             class Inner{
1. String, Buffer, Builder
2. Enum
- Compulsary
    - template
                                                         Outer outer = new Outer();
    - upcasting, downcasting
                                                         Outer.Inner i1 = outer.new Inner();
    - interfaces
        - upcasting
```