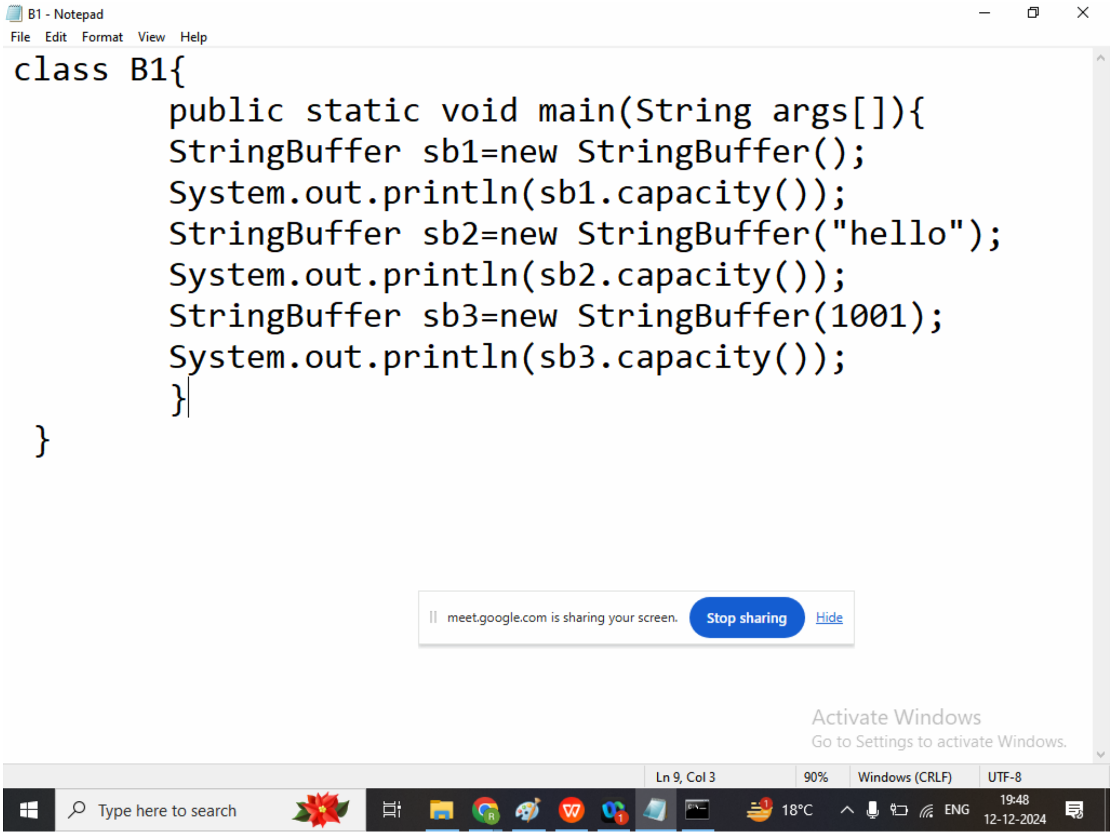
Q1. Explain StringBuffer class in Java?
Ans:
String(Immutable):
StringBuffer(Mutable):If our content are not fixed and we want to perform some modification but thread safety is required then we should go for String Buffer class

StringBuilder(Mutable):If our content are not fixed and we want to perform some modification but thread safety is not required then we should go for String Builder class

Constructor:

1. StringBuffer();
//default initial capacity is 16
New capacity =(current capacity +1)*2
2. StringBuffer(String str):
//default capacity=default capacity SB+length of the String
3. StringBuffer(int initialCpacity)



```
class B1{
        public static void main(String args[]){
        StringBuffer sb1=new StringBuffer();
        System.out.println(sb1.capacity());
        StringBuffer sb2=new StringBuffer("hello");
        System.out.println(sb2.capacity());
        StringBuffer sb3=new StringBuffer(1001);
        System.out.println(sb3.capacity());
        }
 }
```

Methods of StringBuffer and StringBuilder

1. int capacity(): it will return current capacity of the SB Object

2. append():It is used to insert data at the end of the Stringbuffer object

append(String)

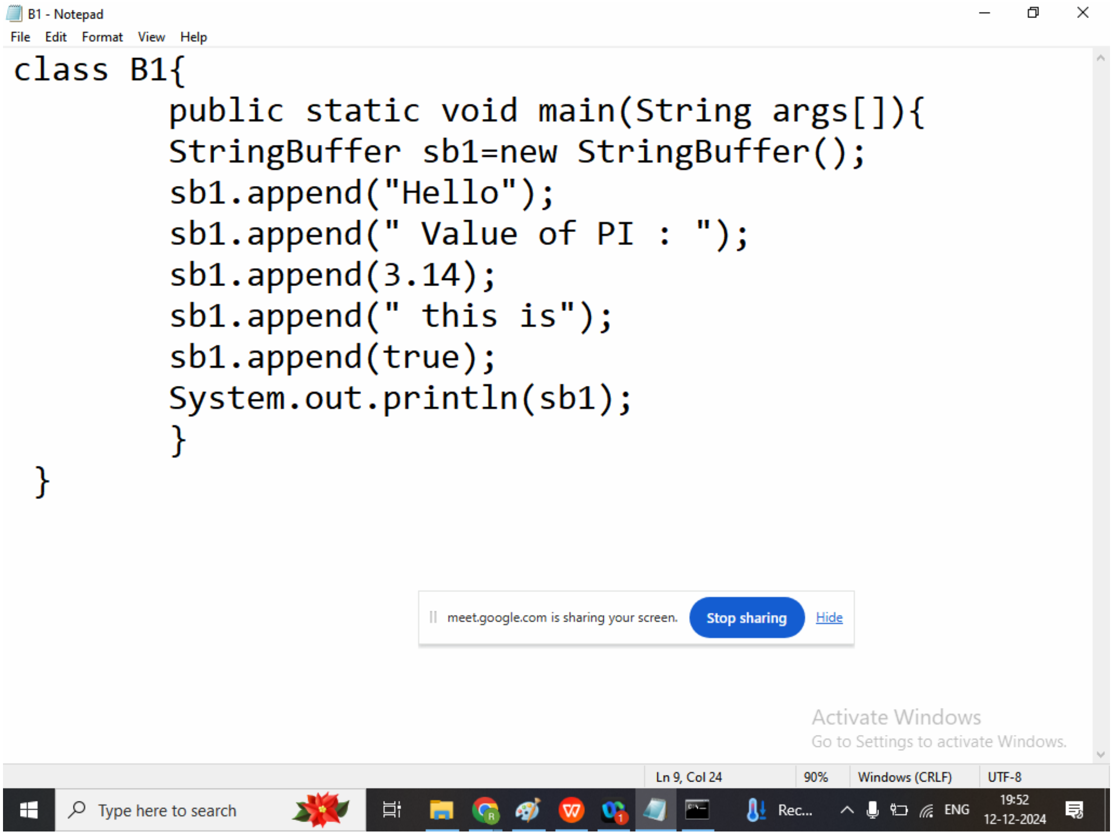
append(int)

append(float)

append(String)

append(char)

append(boolean)

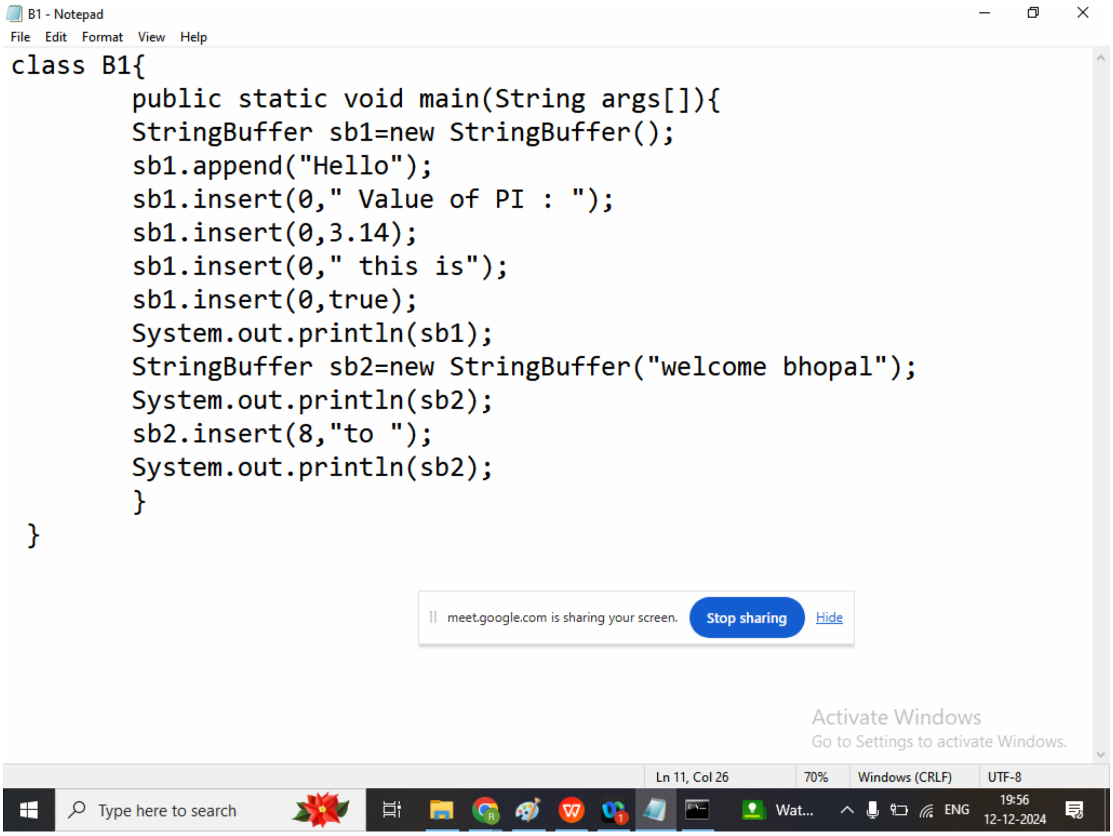


```
class B1{
        public static void main(String args[]){
        StringBuffer sb1=new StringBuffer();
        sb1.append("Hello");
        sb1.append(" Value of PI : ");
        sb1.append(3.14);
        sb1.append(" this is");
        sb1.append(true);
        System.out.println(sb1);
        }
 }
```

3. Insert(): It is used to add data into SB object in any position

Syntax:

insert(position,data);



```
class B1{
        public static void main(String args[]){
        StringBuffer sb1=new StringBuffer();
        sb1.append("Hello");
        sb1.insert(0," Value of PI : ");
        sb1.insert(0,3.14);
        sb1.insert(0," this is");
        sb1.insert(0,true);
        System.out.println(sb1);
        StringBuffer sb2=new StringBuffer("welcome bhopal");
        System.out.println(sb2);
        sb2.insert(8,"to ");
        System.out.println(sb2);
        }
 }
```

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Q1.Explain StringBuffer class deleteCharAt() method?

Ans: It is used to delete character by character from the given SB object?

Example:

Write a java program to delete first and middle and last character of String

```
Enter Any String: welcome
Result After Delete: elom
```

```
class B1{
        public static void main(String args[]){
        StringBuffer sb1=new
StringBuffer("welcome");
        System.out.println(sb1);
        sb1.deleteCharAt(sb1.length()/2);
        sb1.deleteCharAt(0);
        sb1.deleteCharAt(sb1.length()-1);
        System.out.println(sb1.toString());


        }
 }
```
