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:

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

```
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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());
        System.out.println(sb3.capacity());
    }
}

// Type here to search

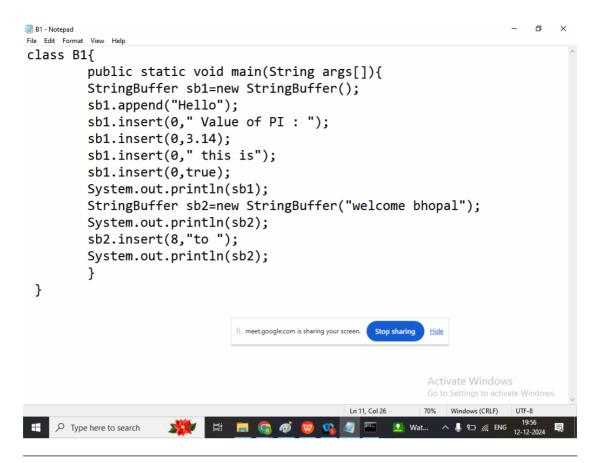
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```

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)

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

Syntax:

insert(position,data);



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());
```

Q1. Explain delete() method of StringBuffer class?

Ans: It is used to delete more than one character at a time then we should go for delete method

```
Syntax:

delete(int start,int end);

class A1{

   public static void main(String args[]){

    StringBuffer s=new

StringBuffer("welcome to bhopal");

   System.out.println(s);

   s.delete(3,6);

   System.out.println(s);
```

```
Q2. Explain StringBuffer class
setCharAt()?
Ans: It is used to update String Buffer
Object
Syntax:
setCharAt(int position,char);
class A1{
   public static void main(String args[]){
```

```
StringBuffer s=new
StringBuffer("AMAN");
System.out.println(s);
s.setCharAt(0,'N');
System.out.println(s);
```

```
}
1
```

Q3. Write a java program to update all vowel by Z in the Given String?

```
Enter Any String: welcome
wZlcZmZ
class A1{
   public static void main(String
args[]){
   StringBuffer s=new
StringBuffer("welcome");
   System.out.println(s);
   for(int i=0;i<s.length();i++){
   char c=s.charAt(i);
   if(c=='a'||c=='i'||c=='o'||c=='u'||c=='e'
){
```

```
s.setCharAt(i,'Z');
System.out.println(s);
```

Q3. Explain StringBuffer class reverse()?

Ans: It is used to reverse the StringBuffer Object

```
class A1{
    public static void main(String args[]){
    StringBuffer s=new
StringBuffer("ABCDE");

    System.out.println(s);

    s.reverse();
    System.out.println(s);
```

```
\
\
```

Homework:

Q1. Write a java program to check given

String is Palindrome or Not?

Example1:

Enter Any String: NAMAN

This is Palindrome String

Example2:

Enter Any String: MADAM

This is Palindrome String

Example1:

Enter Any String: CAR

This is Not a Palindrome String

Q2.Write a java program to check given string is panagram or not?

Ans:

Example1:

Enter Any String:

abcdefghijklmnopqrstuvwxyz

True

Example2:

Enter Any String:

abcdefghijklmnorstuvwxyz

false

Q2. Write a java program to check given String is anagram or not?

Example1:

Enter String 1: listen

Enter String 2: silent

This is an agram string