```
# Program on basic String Operations
package strings;
      int rollno;
      String name;
      String city;
      Student(int rollno, String name, String city){
             this.rollno=rollno;
             this.name=name;
             this.city=city;
      public String toString(){
             return rollno+" "+name+" "+city;
       }
public class StringOperation {
      public static void main(String[] args) {
             // TODO Auto-generated method stub
             System.out.println("\nCreation of String\n");
char chars[] = { 'a', 'b', 'c', 'd', 'e', 'f' };
             String s = new String(chars, 2, 3);
             System.out.println("Value of s is "+ s);
             System.out.println("\nCreation of String with ASCII Value\n");
             byte ascii[] = {65, 66, 67, 68, 69, 70 };
             String s1 = new String(ascii);
             System.out.println(s1);
             System.out.println("\nConcatenation by \"+\" method\n");
             String s2="ACIT" +"Engineering";
             System.out.println(s2);
             System.out.println("\nConcatenation by concat() method\n");
             String s3="Acharya";
             String s4=" Institute";
             String s5=s3.concat(s4);
             System.out.println(s5);
             System.out.println("\nFor toString() method\n");
             Student s6 = new Student(101, "Raj", "lucknow");
             System.out.println(s6);
             System.out.println("\nFor CharAt() method\n");
             String name="Acharya";
```

```
char ch=name.charAt(4);
System.out.println(ch);
// For getChars()
System.out.println("\nFor getChars() method\n");
String str = new String("Hello Kumar how r u");
char[] ch1 = new char[10];
str.getChars(6, 16, ch1, 0);
System.out.println(ch);
      For getBytes()
System.out.println("\nFor getBytes() method\n");
String s7="ABCDEFG";
byte[] barr=s7.getBytes();
for(int i=0;i<barr.length;i++){</pre>
      System.out.println(barr[i]);
// For toCharArray()
System.out.println("\nFor toCharArray() method\n");
String s8="hello";
char[] ch2=s8.toCharArray();
for(int i=0;i<ch2.length;i++) {</pre>
      System.out.println(ch2[i]);
}
// For equals() and equalsIgnoreCase()
System.out.println("\nFor equals() and equalsIgnoreCase() method\n");
String s9="Kumar";
String s10="KUMAR";
System.out.println(s9.equals(s10));
System.out.println(s9.equalsIgnoreCase(s10));
System.out.println("\nFor \"==\" method\n");
String s11="Kumar";
String s12=new String("Kumaa");
System.out.println(s11==s12);
System.out.println("\nFor compareTo() method\n");
String s13="Sachin";
String s14="Ratan";
System.out.println(s13.compareTo(s14));
System.out.println("\nFor startsWith() method\n");
String s15="java string split method";
System.out.println(s15.startsWith("java string"));
System.out.println("\nFor endsWith() method\n");
String s16="Acharya Institute of technology";
System.out.println(s16.endsWith("yt"));
```

```
System.out.println("\nFor indexOf() method\n");
String s17="this is index of example";
int index1=s17.index0f("is");
int index2=s17.index0f("index");
System.out.println(index1+" "+index2);
System.out.println("\nFor lastIndexOf() method\n");
String s18="this is index of example";
index1=s18.lastIndex0f('s');
System.out.println(index1);
System.out.println("\nFor substring() method\n");
String s19="SachinTendulkar";
System.out.println(s19.substring(6));
System.out.println(s19.substring(0,6));
// For replaceString() method
System.out.println("\nFor replaceString() method\n");
String s20="AST is a very good college";
String replaceString=s20.replace('S','I');
System.out.println(replaceString);
System.out.println("\nFor replace() method\n");
String s21="my name is ABC my name is college";
String replace1 =s21.replace("is","was");
System.out.println(replace1);
System.out.println("\nFor trim() method\n");
String s22=" hello string ";
System.out.println(s22+"java");
System.out.println(s22.trim()+"java");
System.out.println("\nFor toLowerCase() and toUpperCase() method\n");
String string1="Acharya Institute of Technology";
String s1lower=string1.toLowerCase();
System.out.println(s1lower);
String s1upper=string1.toUpperCase();
System.out.println(s1upper);
System.out.println("\nFor StringBuffer() with append() method\n");
StringBuffer sb=new StringBuffer("Hello ");
sb.append("AIT");
System.out.println(sb);
System.out.println("\nFor StringBuffer() with insert() method\n");
StringBuffer sb1=new StringBuffer("Hello ");
sb1.insert(1,"AIT");
```

```
System.out.println(sb1);
             System.out.println("\nFor StringBuffer() with replace() method\n");
             StringBuffer sb2=new StringBuffer(" Hello World ");
             sb2.replace( 6, 11, "java");
             System.out.println(sb2);
             // For StringBuffer() with delete() and deleteCharAt() method
             System.out.println("\nFor StringBuffer() with delete() and
deleteCharAt() method\n");
             StringBuffer sb4=new StringBuffer("Hello");
             sb4.delete(1,3);
             System.out.println(sb4);
             StringBuffer sb5=new StringBuffer("This is a Test");
             sb5.deleteCharAt(3);
             System.out.println(sb5);
             System.out.println("\nFor StringBuffer() with replace() method\n");
             StringBuffer str1 = new StringBuffer("Hello");
             str1.reverse();
             System.out.println(str1);
             // For StringBuffer() with capacity() and ensureCapacity() method
             System.out.println("\nFor StringBuffer() with capacity() and
ensureCapacity() method\n");
             StringBuffer str2 = new StringBuffer();
             System.out.println( str2.capacity());
             str2.ensureCapacity(30);
             System.out.println( str2.capacity());
             System.out.println("\nFor StringBuffer() with capacity() and length()
method\n");
             StringBuffer s23=new StringBuffer("AIT");
             int p=s23.length();
             int q=s23.capacity();
             System.out.println("Length of string AIT="+p);
             System.out.println("Capacity of string AIT="+q);
             System.out.println("\nFor StringBuffer() with charAt() and setCharAt()
method\n");
             StringBuffer sb6 = new StringBuffer("Hello");
             System.out.println("buffer before = " + sb6);
             System.out.println("charAt(1) before = " + sb6.charAt(1));
             sb6.setCharAt(1, 'i');
             sb6.setLength(2);
             System.out.println("buffer after = " + sb6);
             System.out.println("charAt(1) after = " + sb6.charAt(1));
```

}
}

## **Output**

```
Creation of String
Value of s is cde
Creation of String with ASCII Value
ABCDEF
Concatenation by "+" method
ACITEngineering
Concatenation by concat() method
Acharya Institute
For toString() method
101 Raj lucknow
For CharAt() method
For getChars() method
For getBytes() method
65
66
67
68
69
70
71
For toCharArray() method
h
e
o
For equals() and equalsIgnoreCase() method
false
```

```
true
For "==" method
false
For compareTo() method
For startsWith() method
true
For endsWith() method
false
For indexOf() method
2 8
For lastIndexOf() method
For substring() method
Tendulkar
Sachin
For replaceString() method
AIT is a very good college
For replace() method
my name was ABC my name was college
For trim() method
hello string java
hello stringjava
For toLowerCase() and toUpperCase() method
acharya institute of technology
ACHARYA INSTITUTE OF TECHNOLOGY
For StringBuffer() with append() method
Hello AIT
For StringBuffer() with insert() method
```

## Program on Basic String Operation

```
HAITello
For StringBuffer() with replace() method
Hellojavad
For StringBuffer() with delete() and deleteCharAt() method
Hlo
Thi is a Test
For StringBuffer() with replace() method
olleH
For StringBuffer() with capacity() and ensureCapacity() method
16
34
For StringBuffer() with capacity() and length() method
Length of string AIT=3
Capacity of string AIT=19
For StringBuffer() with charAt() and setCharAt() method
buffer before = Hello
charAt(1) before = e
buffer after = Hi
charAt(1) after = i
```