

LAB 5: STRINGS IN JAVA

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Q.1 Write a program to find a particular character on the given index. Take index from user.

CODE:

```
findindex - Notepad
File Edit Format View Help
import java.util.*;
class findindex
{ public static void main(String args[])
{
    Scanner s=new Scanner(System.in);
    String a;int b;
    System.out.println("Enter a string");
    a=s.nextLine();
    System.out.println("Enter the index of which the character is to be known");
    b=s.nextInt();
    for(int i=0;i<a.length();i++)
    {
        if(b==i)
        {
            System.out.println("Character at index "+i+" is "+a.charAt(i));break;
        }
    }
}
}
```

OUTPUT:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19043.1288]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>javac findindex.java

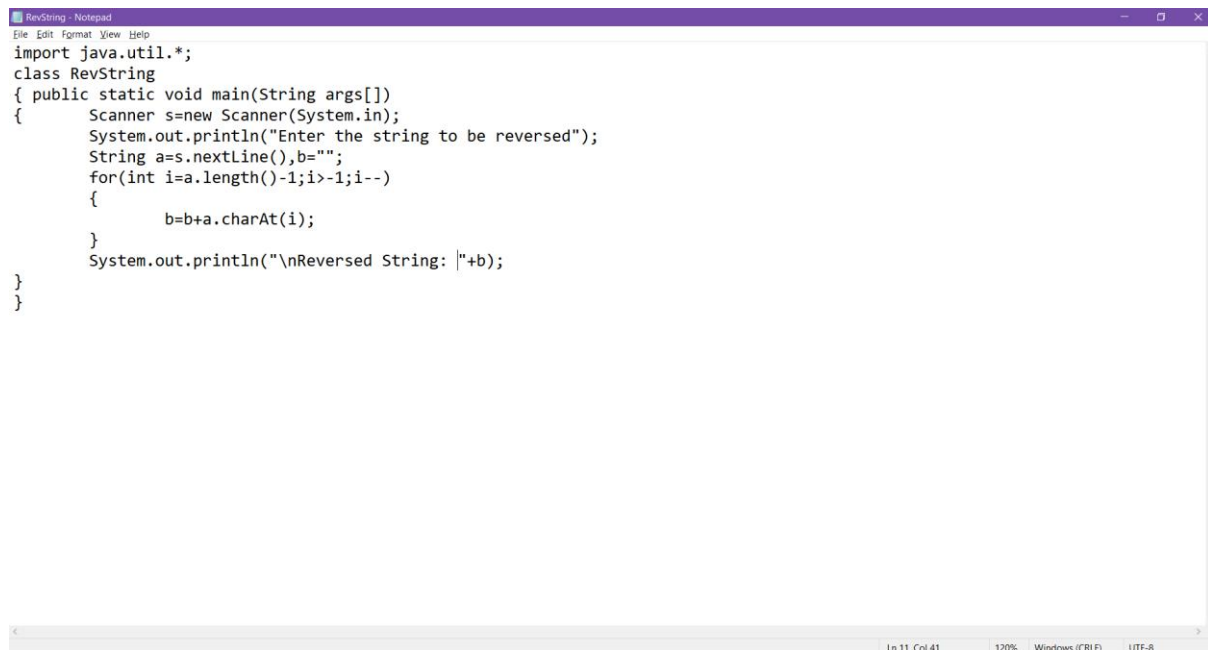
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>java findindex
Enter a string
It is a fine day.
Enter the index of which the character is to be known
6
Character at index 6 is a

C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>java findindex
Enter a string
Nice to see you.
Enter the index of which the character is to be known
9
Character at index 9 is e

C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>
```

Q.2 Write a program to reverse the string.

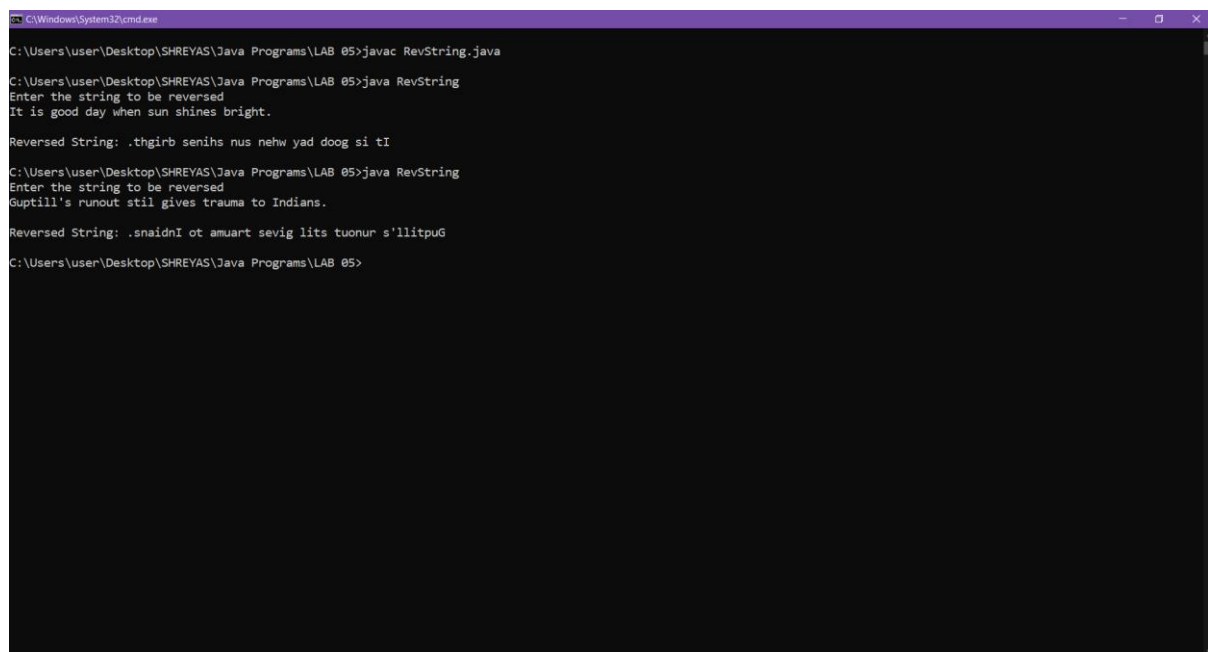
CODE:



```
RevString - Notepad
File Edit Format View Help
import java.util.*;
class RevString
{ public static void main(String args[])
{
    Scanner s=new Scanner(System.in);
    System.out.println("Enter the string to be reversed");
    String a=s.nextLine(),b="";
    for(int i=a.length()-1;i>-1;i--)
    {
        b=b+a.charAt(i);
    }
    System.out.println("\nReversed String: "+b);
}
}
```

Ln 11, Col 41 120% Windows (CRLF) UTF-8

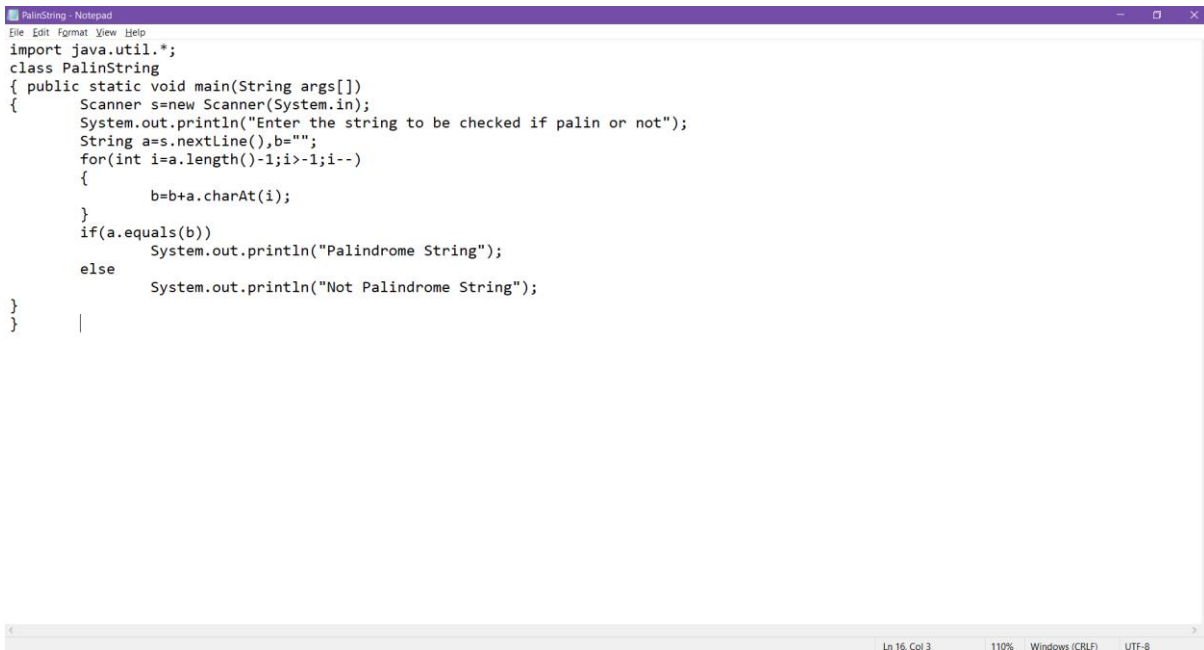
OUTPUT:



```
C:\Windows\System32\cmd.exe
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>javac RevString.java
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>java RevString
Enter the string to be reversed
It is good day when sun shines bright.
Reversed String: .thgirb senihs nus nehW yad doog si tI
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>java RevString
Enter the string to be reversed
Guptill's runout stil gives trauma to Indians.
Reversed String: .snaidnI ot amuart sevig lits tuonur s'llitpuG
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>
```

Q.3 Write a program to check if the given string is palindrome or not.

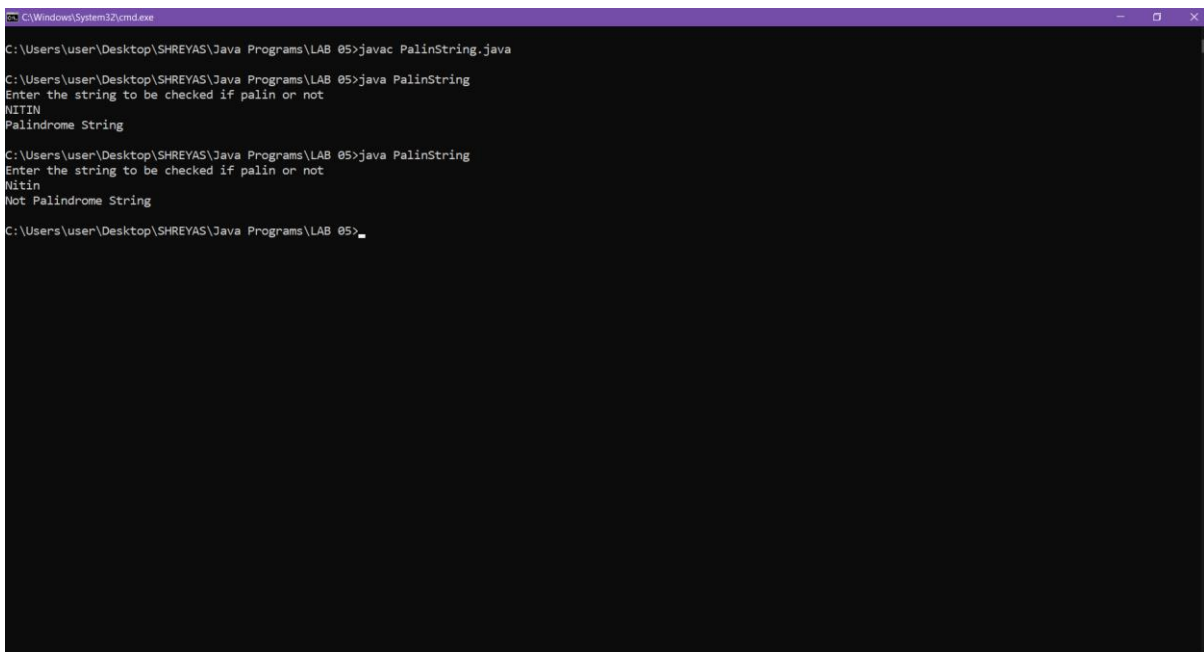
CODE:



```
PalinString - Notepad
File Edit Format View Help
import java.util.*;
class PalinString
{ public static void main(String args[])
{
    Scanner s=new Scanner(System.in);
    System.out.println("Enter the string to be checked if palin or not");
    String a=s.nextLine(),b="";
    for(int i=a.length()-1;i>-1;i--)
    {
        b=b+a.charAt(i);
    }
    if(a.equals(b))
        System.out.println("Palindrome String");
    else
        System.out.println("Not Palindrome String");
}
}
```

Ln 16, Col 3 110% Windows (CRLF) UTF-8

OUTPUT:



```
C:\Windows\System32\cmd.exe
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>javac PalinString.java
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>java PalinString
Enter the string to be checked if palin or not
NITIN
Palindrome String
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>java PalinString
Enter the string to be checked if palin or not
Nitin
Not Palindrome String
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>
```

Q.4 Write a program to convert starting letter of each word in a long string to uppercase.

CODE:

```
FirstCapString - Notepad
File Edit Format View Help
import java.util.*;
class FirstCapString
{ public static void main(String args[])
{
    Scanner s=new Scanner(System.in);
    System.out.println("Enter the string to be convert first letter of word to capital");
    String a=s.nextLine(),b=a.substring(0,1).toUpperCase();
    for(int i=1;i<a.length();i++)
    {
        b=b+a.charAt(i);
        if(a.charAt(i)==' ')
        {
            i++;
            b=b+a.substring(i,i+1).toUpperCase();
        }
    }
    System.out.println("\nConverted String: "+b);
}
}
```

OUTPUT:

```
C:\Windows\System32\cmd.exe
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>javac FirstCapString.java
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>java FirstCapString
Enter the string to be convert first letter of word to capital
look ahead And smile

Converted String: Look Ahead And Smile

C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>java FirstCapString
Enter the string to be convert first letter of word to capital
it is a good day.

Converted String: It Is A Good Day.

C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>java FirstCapString
Enter the string to be convert first letter of word to capital
nice day is when wind blows from the west and sun shines too bright to be seen with naked eye.

Converted String: Nice Day Is When Wind Blows From The West And Sun Shines Too Bright To Be Seen With Naked Eye.

C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 05>
```