Madan Bhandari Memorial College

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Practica	Chaat
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T.U.Roll.No. :- 29179

Title: 2075 Question Salution

Design a GUI form using swing with a text hield, a text label for displaying the input message "Input any String", and three buttons with caption Check Palindrome, Reverse, Findrowels. Write a complete program for above scenario and for checking palindrome in first button, reverse it after dicking second button and extract the vowels from it after clicking third button.

Gode:
import javax.swirg.*;
import java.awt.*;
import java.awt.event.Action Event;
import java.awt.event.Action Listener;
public class Palindrome extends IFrame
S

public static void main (String [] args) & Palindrome frame = new Palindrome();
Frame. set Visible (brue);

public Palindrome() &

set layout (new Gridlayout (4,1,20,20));
Ilabel input label = new Ilabel ("Input any String:");

That held input Textheld = new Text held (20);

add (input Label);

add (input Text Field);

Tlatel output Label = new Thatel ("Output:");

Trent field output Text field = new Trext Field (20);

add (output Label);

and (output Text Field);

output Text Field . set Edit tuble (false);

```
JButton checkPalinerome Button = new JButton ("Check Palindrome");
add (checkfalindsome Button);
JButton reverse Button = new JButton ("Reverse");
add (sevesse Button);
JButton firelyowel Button = new JButton ("find Vowel");
add (find vowel Button);
check Palindrome Button. and Action Listener (new Action Listener ()
  Ę
       @ Over nide
       public void action Performed (Action Event e) {
              String copyuserInput = ";
              Story user Input = input Text-field . getText()
              int length = user Input. length ();
              for (int i = dength -1; i>=0; i-) &
                    copy User Input = copy User Input + user Input · char At(i);
              if (copy User Input equals Ignore Cose (user Input)) &
                  culputTextfield-setText("String is palind nome");
             is
else &
                 output Text field set Text ("Story isn't applied some.");
    3
  3);
  reverse Button. add Action Listener Crew Action listener ()
  ş
      @ Overside
       public void action Performed (Action Event e) &
            String reverse User Input = "";
             string userInput = inputTextField.getText();
             int length = user Input. length():
             for (int i = length -1; i>=0; i--) &
                   reverse User Input = reverse User Input + user Input.
                                                       charat(i);
                  owhortextheld setText "Reverse String is. " + surpretsor
   3);
```

```
Find Vowel Button-add Action Listener (new Action Listener () &
    @ overnide
     public void action Performed (Action Evente) &
          char[] vowel= S'a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'D', 'U'3;
           Storg uscal nput = input Text Field.getText();
           int length = user Input. length ();
           char[] exbacked vowel = new char[length]
           storing show vowel = "";
            for (int i=0; iz=length-1; i++) &
                 for (intj=0; j==vowel-length-1; j++) &
                     if (user Input. char Atli) == vauel [j]) &
                         extracted vowed [i] = user I rput char Atli);
                        show vowel = show vowel + Storing value of
                         Cextracted Vowel[i]);
                  3
            output Text Field. set Text ("Vowels: "+ show Vowel);
       Z
    3);
    pack();
    Set O e fault Close Operation (EXIT_ON_CLOSE);
Z
```

3

Input any String: Output: String isn't a palindrome. Check Palindrome Reverse Find Vowel PS D: Utsav Java Hall Indexing Input any String: Utsav Output: Reverse String is: vastU Check Palindrome Reverse Find Vowel	h	- o x
Check Palindrome Reverse Find Vowel S D: Utsav Java Falindrome — — — — — — — — — — — — — — — — — — —	Input any String:	Ulsav
Find Vowel PS D: Utsav Java Java Ppl Indextile -	Output:	String isn't a palindrome.
PS D: Utsav Java lab 17> java Fal indreme -	Check Palindrome	Reverse
Input any String: Output: Reverse String is: vastU Check Palindrome Reverse	Find Vowel	
Input any String: Output: Reverse String is: vastU Check Palindrome Reverse Find Vowel	PS D:\Utsav\Java\lab 175	java Falindrome
Input any String: Output: Reverse String is: vastU Check Palindrome Reverse Find Vowel		
Input any String: Output: Reverse String is: vastU Check Palindrome Reverse Find Vowel		
Input any String: Output: Reverse String is: vastU Check Palindrome Reverse Find Vowel		
Output: Reverse String is: vastU Check Palindrome Reverse Find Vowel	<u>2</u>	- o x
Output: Reverse String is: vastU Check Palindrome Reverse Find Vowel		Utsav
Check Palindrome Reverse Find Vowel	,	
Find Vowel	Output:	Reverse String is: vastU
Find Vowel	r	
The first of the second of the	Check Palindrome	Reverse:
PS D: Aut savidaya (Tahiri 7) Taya Palandrove	Find Vowel	
	PS D: \\III sav\ Java\ lahid 75	Grava Pal indrove
	(a)	- n v
_ □ ×	mput any atting.	
ora rugu urum magamada nakaliya malahadi da bari - maga bir kabir nakaliya da kabir da bari kabir da bari kabi	Output:	Vowels: Ua
Input any String: Utsav	Check Palindrome	
Output; Ulsav Vowels: Ua		Reverse
Output; Ulsav Vowels: Ua	Find Vowal	Reverse