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**Charotar University of Science and Technology**

IT267 – JAVA PROGRAMMING

Practical 2:

**Aim**: Java program that converts a string entered by the user to Morse code or vice versa. It will require the implementation of data structures, including arrays, loops, and conditional statements.

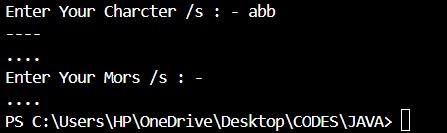
* Create two arrays - one to contain the strings of letters to be converted, and one to contain the Morse codes.
* In the program's main method, prompt the user for input to choose between the string or Morse.
* For Morse code conversion, read in a string from the user; use conditional statements, looping, and array methods to convert the string to Morse-code.
* For string conversion, read in a Morse-coded string from the user; use arrays, conditional statements, and looping to convert Morse code to a string CODE :

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| Import java.util.Scanner; class  pra2 { public static void main(String[] args)  { char[]  a={'a','b','c','d','c','d','e','f','g','h','i','j','k','l','m','n','o','p','q'  ,'r','s','t','u','v','w','x','y','z'};  String[] b={"----","....","-.-.",".-.-","--..","..--  ","////",";;;;","&&&&"};  System.out.print("Enter Your Charcter /s : - ");  Scanner sc = new Scanner(System.in); String line = sc.nextLine(); for(int i=0;i<line.length();i++) { char s=line.charAt(i); if(s==a[i])  {  System.out.print(b[i]);  }  } |

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|  |
| --- |
| System.out.println("Enter Your Morse /s : - ");  String morse = sc.nextLine(); //char g; for(int j=0;j<morse.length()/4;j++) { if(morse.equals(b[j]))  {  System.out.print(a[j]);  }  }  }  } |

OUTPUT :



Conclusion:-

This Java program, defined in the class p2, converts between English letters and Morse code. The program first displays a menu with two options:

converting from English to Morse code and converting from Morse code to English. The user selects an option and provides the input accordingly. For the English to Morse code conversion, the program translates each letter to its corresponding Morse code representation. For Morse code to English conversion, it translates each Morse code segment back to the corresponding English letter. This example illustrates basic user input handling and string manipulation in Java.