**PROGRAMMING IN JAVA FOR SCIENTIFIC APPLICATIONS**

**CSA0959**

1. Consider you are asked to decode a secret message. The coded message is in numbers and each number stands for a specific letter. You discover enough of the secret code to decode the current message. So far, you know:

• 1 represents “D”

• 2 represents “W”

• 3 represents “E”

• 4 represents “L”

• 5 represents “H”

• 6 represents “O”

• 7 represents “R”

Write a program that prompts the user for 10 numbers, one at a time, and prints out the decoded message. If the user enters a number that is not one of those already deciphered, prompt him/her for a new number.

Test your code with the following input: 5 3 4 4 6 2 6 7 4 1

**PROGRAM:**

A screenshot of a computer program

Description automatically generated

A screenshot of a computer

Description automatically generated

**OUTPUT:**

Decoded message: HELLOWORLD