CSA0959-PROGRAMMING IN JAVA FOR SCIENTIFIC APPLICATIONS

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```
import java.util.Scanner;
public class SecretMessageDecoder {
 public static void main (String [] args) {
   Scanner scanner = new Scanner (System.in);
   String secretCode = "DWELHOR";
   String decodedMessage = "";
   System.out.println("Enter 10 numbers to decode the secret message:");
   for (int i = 0; i < 10; i++) {
     int number = scanner.nextInt();
     char letter = decodeLetter(number);
     if (letter == '*') {
       System.out.println ("Invalid number. Please enter a valid number.");
       i--;
     } else {
       decoded Message += letter;
     }
   }
   System.out.println("Decoded Message: " + decoded Message);
```

```
}
public static char decode Letter(int number) {
  switch (number) {
    case 1:
      return 'D';
    case 2:
      return 'W';
    case 3:
      return 'E';
    case 4:
      return 'L';
    case 5:
      return 'H';
    case 6:
      return 'O';
    case 7:
      return 'R';
    default:
      return '*'; // Invalid number
```

}

}

}