

```
1 import java.util.Scanner;
2 public class Main {
3     public static void main(String[] args) {
4         Scanner scanner = new Scanner(System.in);
5         StringBuilder decodedMessage = new StringBuilder();
6
7         int count = 0;
8         while (count < 10) {
9             System.out.print("Enter a number (1-7): ");
10            int num = scanner.nextInt();
11
12            switch (num) {
13                case 1:
14                    decodedMessage.append('D');
15                    count++;
16                    break;
17                case 2:
18                    decodedMessage.append('W');
19                    count++;
20                    break;
21                case 3:
22                    decodedMessage.append('E');
23                    count++;
24                    break;
25                case 4:
26                    decodedMessage.append('L');
27                    count++;
28                    break;
29                case 5:
30                    decodedMessage.append('H');
31                    count++;
32                    break;
33                case 6:
34                    decodedMessage.append('O');
35                    count++;
36                    break;
37                case 7:
38                    decodedMessage.append('R');
39                    count++;
40                    break;
```

```
Enter a number (1-7): 5
Enter a number (1-7): 3
Enter a number (1-7): 4
Enter a number (1-7): 4
Enter a number (1-7): 6
Enter a number (1-7): 2
Enter a number (1-7): 6
Enter a number (1-7): 7
Enter a number (1-7): 4
Enter a number (1-7): 1
Decoded message: HELLOWORLD
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```

Main.java

```

8   while (count < 10) {
9       System.out.print("Enter a number (1-7): ");
10      int num = scanner.nextInt();
11
12      switch (num) {
13          case 1:
14              decodedMessage.append('D');
15              count++;
16              break;
17          case 2:
18              decodedMessage.append('W');
19              count++;
20              break;
21          case 3:
22              decodedMessage.append('E');
23              count++;
24              break;
25          case 4:
26              decodedMessage.append('L');
27              count++;
28              break;
29          case 5:
30              decodedMessage.append('H');
31              count++;
32              break;
33          case 6:
34              decodedMessage.append('O');
35              count++;
36              break;
37          case 7:
38              decodedMessage.append('R');
39              count++;
40              break;
41          default:
42              System.out.println("Invalid number. Please enter a number between 1 and 7.");
43      }
44  }
45  System.out.println("Decoded message: " + decodedMessage.toString());
46  }
47  }

```

```

Enter a number (1-7): 5
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Enter a number (1-7): 4
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Decoded message: HELLOWORLD

...Program finished with exit code 0
Press ENTER to exit console.

```