Assignment 1:

Message Decorder:

```java
import java.util.Scanner;
class msgdecorder{
    public static void main(String[] args){
        Scanner in=new Scanner(System.in);
        String code="DWELHOR";
        String decode="";
        System.out.println("Enter 10 numbers to decode: ");
        for(int i=0;i<10;i++){
            int num=in.nextInt();
            char letter=decodeLetter(num);
            if(letter=='*'){
                System.out.print("Invalid");
                i--;
            }else{
                decode+=letter;
            }
        }
        System.out.print("Decoded message = "+decode);
        in.close();
    }
    public static char decodeLetter(int num){
        switch(num){
            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 '*';

        }
    }
}
```

Output:

```
PS C:\Users\phani\OneDrive\Desktop\JAVA>  & 'C
Messages' '-cp' 'C:\Users\phani\AppData\Roamin
6\bin' 'msgdecorder'
Enter 10 numbers to decode:
5 3 4 4 6 2 6 7 4 1
Decoded message = HELLOWORLD
PS C:\Users\phani\OneDrive\Desktop\JAVA>
```