Here are 3 screenshots of console from running my tester on to encode and decode:

```
Z: 001011000

Enter a line of text:
DSA


Encoded: 1111110011110
Decoded: DSA


Process finished with exit code 0
```

```
Y: 00100
Z: 001011000

Enter a line of text:
I LOVE SRINI


Encoded: 1100 101111101001010011 10011000110010101100
Decoded: I LOVE SRINI


Process finished with exit code 0
```

```
Y: 00100
Z: 001011000

Enter a line of text:
HELLO WORLD


Encoded: 0101011101111011111101 11110111011000101111111
Decoded: HELLO WORLD


Process finished with exit code 0
```