# ASSIGNMENT 5.1

## 5.PROBLEM STATEMENT

### 1. If z is norm (mean = 0, sd = 1) find P(z>2.64), find P(|z|>1.39)

Ans:- z = x-u/a

Z = 2.64 – 0/1 = 2.64

Again, 2.64 + 2.64 \* 1 = 5.28

5.28/100 = 0.0528

Now, 0.5000 – 0.0528 = 0.4472

i.e; z > 2.64

z = x – u/a

z = 1.39 – 0/1 = 1.39

Again, 1.39 + 1.39 \* 1 = 2.78

2.78/100 = 0.0278

Now, 0.5000 – 0.0278 = 0.4722

i.e; |z|> 1.39