

Creative Problem Solving

sandeep@beingzero.in



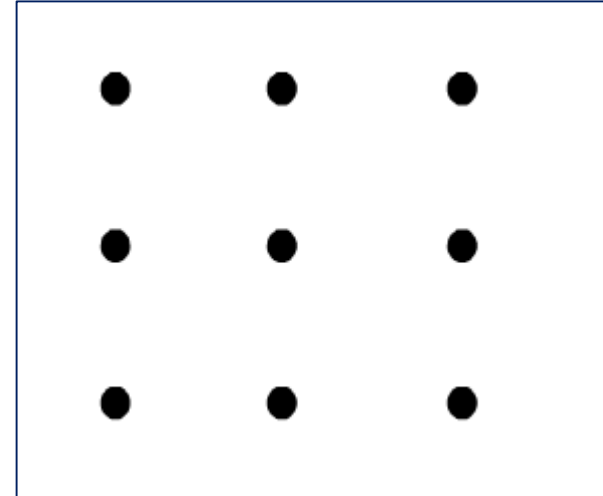
What does Creativity mean?

- “Looking at same thing as everyone else and **thinking something different**”



Exercise

- Draw four lines
**without lifting the pen
or repeating over the line**
that cover all 9 points.



People

“There are 10 types of people in this world”



People

“There are 10 types of people in this world”



Problems Based Distribution

“There are 10 types of people in this world”



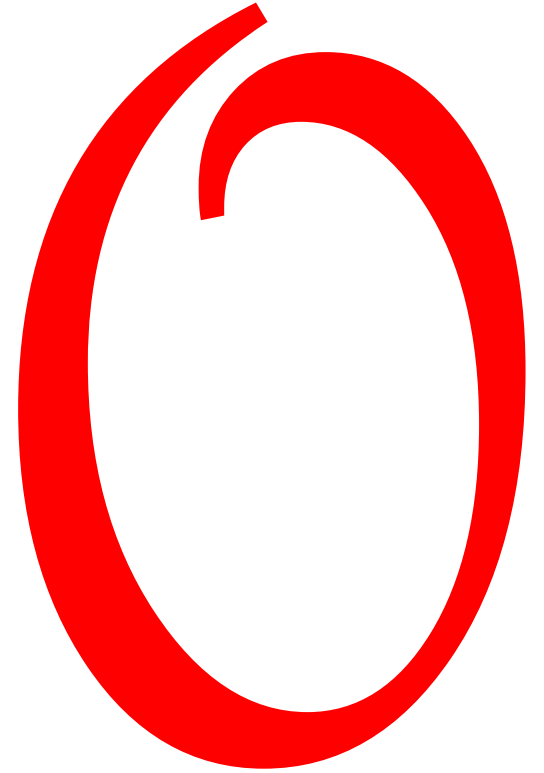
Be Warned!!

- This course will push you towards being **ZERO** rather than HERO.
- Participate @ your own RISK!!



But Why ZERO?

- Zero is a symbol of LEARNER.
- It means, “**There is scope to LEARN and IMPROVE**”.



Zero has 50% Stake in Computers



Zero is Powerful!!

- Power to make anything ZERO.

$$A \times 0 = 0$$

- Power to generate 1.

$$(A)^0 = 1$$

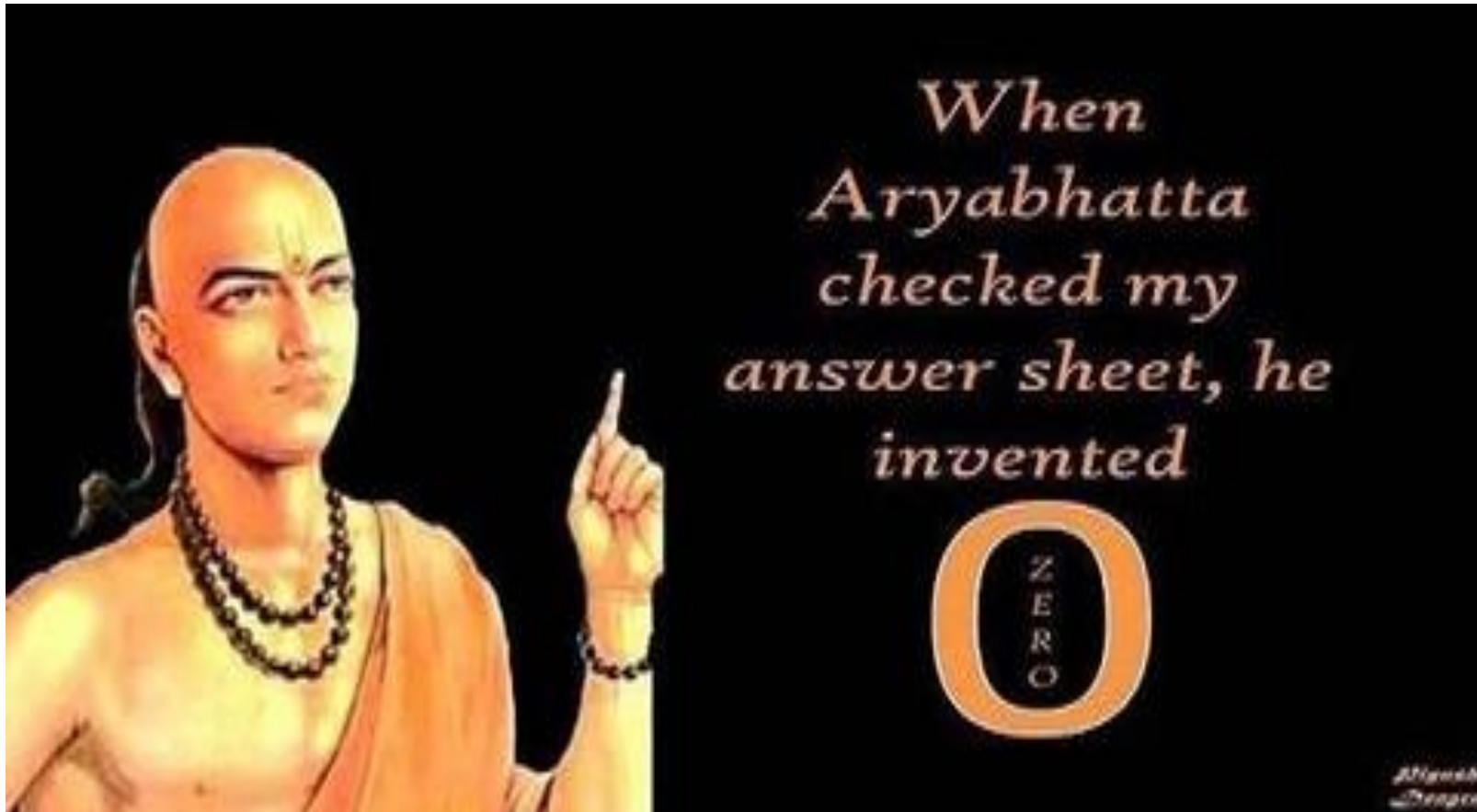
- Power to push anything to INFINITY.

$$A/0 = \infty$$

- Even then it is HUMBLE.

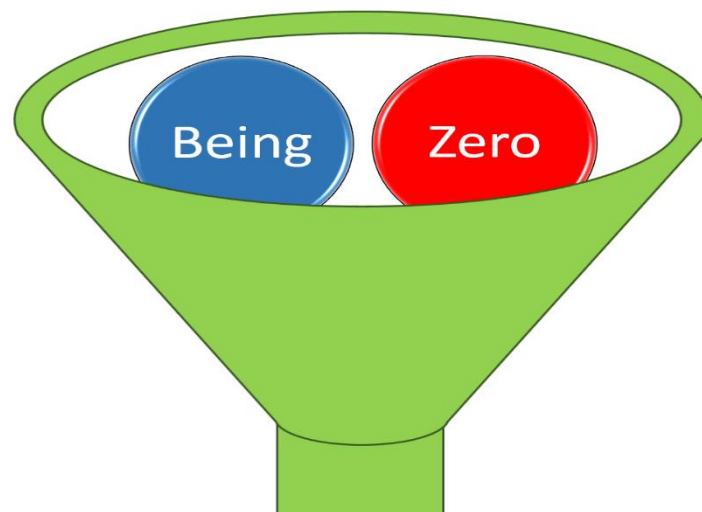


Zero was invented in INDIA



Are you ready for...

BEING ZERO



And Learn to Solve Problems... CREATIVELY!!



Being zero – An Attempt

- Deliver Value to strengthen the EDUCATION Pillar, by helping:
 - Student Community
 - Institutions
 - Society
 - Industry
- Fostering learn-by-doing approach to education.
- Realize our potential.
- Strengthen the Belief that we can CREATE, SUSTAIN, GROW!!



Only GOAL



Rules of the GAME!!

- **PROBLEM DISCUSSION**

- Every class a new problem will be PICKED and SOLVED.
- Problem will be from a REAL WORLD SOFTWARE APPLICATION.
- It will cover more than one programming language concepts.
- Thought process, finding multiple solutions and their evaluation.

- **PRACTICE PROBLEMS AND ASSIGNMENTS**

- Related programming problems will be given for practice in your own time @ home.

- **PROJECT WORK**

- Teams will be created to build one project end to end, solving coding problems and creating its User Interface.
- At the end of COURSE, team is supposed to give a presentation to others.



Sample Problem

- Given a 2D array of letters, write code that generates all possible letter combinations based on SWIPE action on touch screen phone.
- Combinations will range from 3-letter words to 16-letter words.
- EXAMPLE WORDS:
 - STOP
 - THORN

