

WAE



Digital

Be a Winner.....

Starting soon...
@ 6 pm

**Placement
Preparation
(7 Days)**

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WAE



Digital

Be a Winner.....

presents

Live Training of 7 Hours on Placement Interview Preparation

by



Mukesh Vyas

1-7-June
6-7-pm daily

on

You Tube

Contents

Part-I: Problem Solving Skill Development Part-I: Tips to approach problem-based questions in an interview.

Part-II: Problem Solving Skill Development Part-2: Solving some standard problems in the class.

Part-I

Problem Solving Skill Development Part-I: Tips to approach problem-based questions in an interview.

BASICS OF PROBLEMS SOLVING

- **Understand the Problem.**
- **Don't Jump onto a Conclusion.**
- **If you are not sure, then don't try to align with it one of the problems you have solved in past.**
- **Think which Generic Methodology would be best to solve it.**
- **Follow PSR**
 - Problem
 - Solution
 - Result
- **P & S are most important.**

5 WHY'S TECHNIQUE

- This example illustrates it best.
- Scenario: A toddler with a curious mind
 - *Don't put that bag in your mouth*
 - *Why?*
 - *'Coz it is bad for you*
 - *Why?*
 - *'Coz it is made of plastic*
 - *Why?*
 - *'Coz plastic makes it easy to carry things*
 - *Why?*
 - *'Coz plastic doesn't degrade*
 - *Why?*
 - *'Coz it is unnatural and oh well, an environmental hazard*

SO WHAT METHODOLOGY

- Scenario: You must attend a show and you are running late.
- *So what?*
 - *If I take the shorter, more popular, route, the traffic might be too heavy.*
- *So what?*
 - *So I might need to think about an alternative route. But it may be about a mile longer.*
- *So what?*
 - *What if there is traffic on that road too and I lose out on time and distance?*
- *So what?*
 - *Maybe I should divide it into two trips and take the train for the busiest route.*
- It is a way to assess all the aspects, you can think of, to reach a feasible solution.

Problem Solving Stages



RAID Management Tool

RAID SUMMARY									
Risks		Assumptions		Issues		Dependencies			
Total Risk #		Total Assumption #		Total Issue #		Total Dependency #			
5		5		6		6			
Risk Level		Criticality		Priority		Priority			
2	Low	1	Low	3	Low	3	Low		
1	Medium	2	Medium	0	Medium	1	Medium		
1	High	1	High	1	High	1	High		
1	Critical	1	Critical	2	Critical	1	Critical		

R

A

I

D

A

R



RISK



ASSUMPTIONS



ISSUES



DEPENDENCIES



ACTION



REPAIRS

Time & Task Management Master

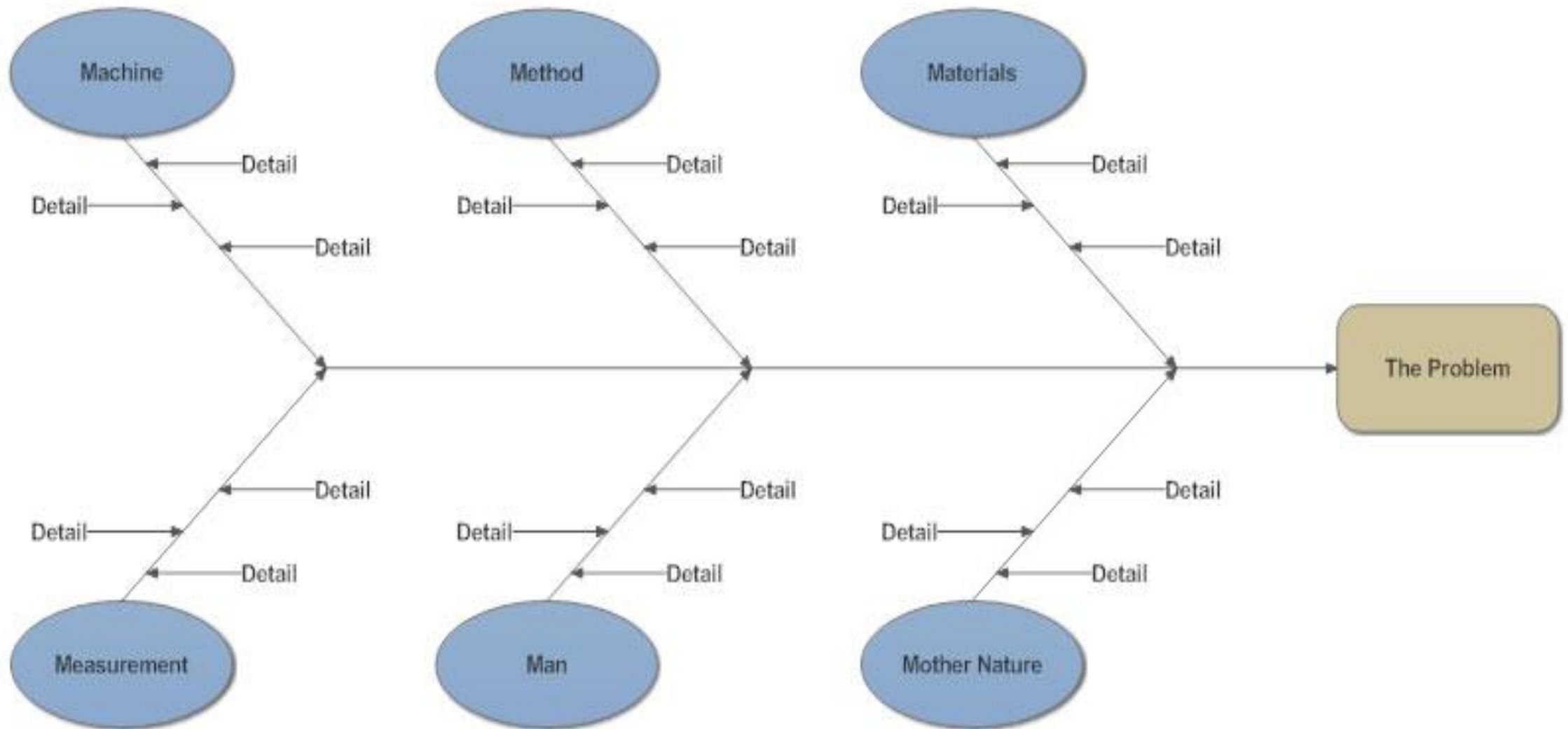
The Eisenhower Decision Matrix



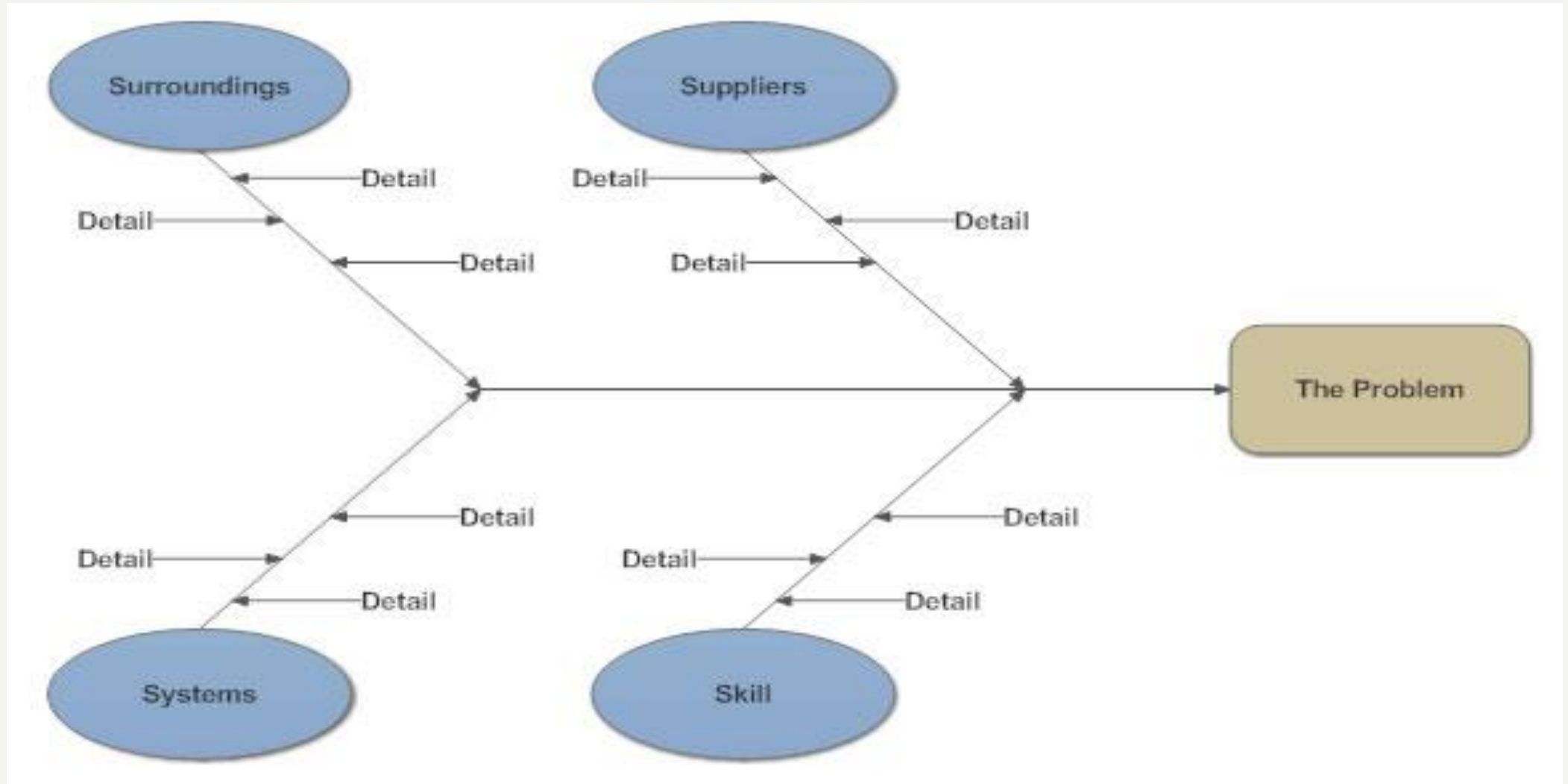
CAUSE AND EFFECT ANALYSIS

- A visual tool to map out your problem
 - Influencing factors
 - Their individual cause and effects.
 - Also known as **Ishikawa diagrams**, after Kaoru Ishikawa, a pioneer in quality control management.
 - The image looks like the carcass of a fish, thus giving it its more popular name, **Fishbone diagrams**.

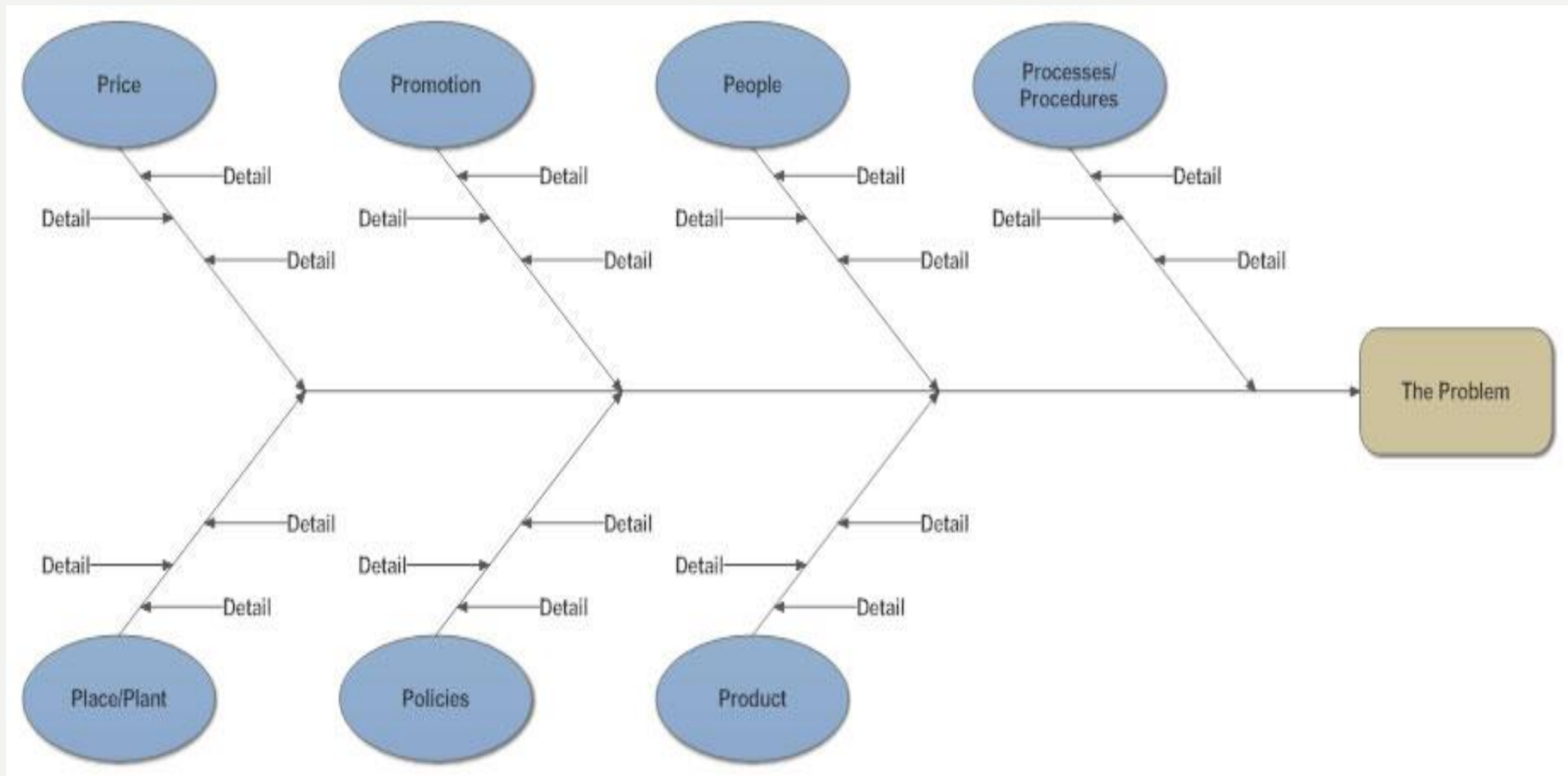
MANUFACTURING INDUSTRY – 6 M



SERVICES INDUSTRY – 4 S



PRODUCT INDUSTRY – 7 P



PROBLEM-1

If there are 30 cans out of them one is poisoned if a person tastes very little, he will die within 14 hours so if there are mice to test and 24 hours to test, how many mice are required to find the poisoned can?

PROBLEM-2

- A farmer has a rose garden. Every day he either plucks 7 or 6 or 24 or 23 roses. The rose plant are intelligent and when the farmer plucks these no. of roses, the next day 37 or 36 or 9 or 18 new roses bloom up in the garden respectively. On Monday he counts 189 roses, he plucks the roses as per his plan on consecutive days and new roses bloom up as per the intelligence of the plants mentioned above. After some days which of the following can be the number of roses in the garden?

- 4
- 37
- 7
- 30

PROBLEM-3

You have 10 bags full of coins. In each bag are infinite coins. But one bag is full of forgeries, and you can't remember which one. But you do know that a genuine coins weigh 1 gram, but forgeries weigh 1.1 grams. You must identify that bag in 1 reading. You are provided with a digital weighing machine.

PROBLEM-4

- There is a bus with 100 labeled seats (labeled from 1 to 100). There are 100 persons standing in a queue. Persons are also labeled from 1 to 100.

People board on the bus in sequence from 1 to n. The rule is, if person 'i' boards the bus, he checks if seat 'i' is empty. If it is empty, he sits there, else he randomly picks an empty seat and sit there. Given that 1st person picks seat randomly, find the probability that 100th person sits on his place i.e. 100th seat.

PROBLEM-5 (ASSIGNMENT)

There are 5 lanes on a racetrack. One needs to find out the 3 fastest horses among total of 25. Find out the minimum number of races to be conducted in order to determine the fastest three.

PROBLEM -6: EINSTEIN'S PUZZLE-ASSIGNMENT

- Answer the question using the given information and hints.
 - In a street there are five houses, painted five different colors.
 - In each house lives a person of different nationality
 - These five homeowners each drink a different kind of beverage, smoke different brand of cigar and keep a different pet.
- **The Question: Who owns the fish ?**
- **Hints:**
 - The British man lives in a red house.
 - The Swedish man keeps dogs as pets.
 - The Danish man drinks tea.
 - The Green house is next to, and on the left of the White house.
 - The owner of the Green house drinks coffee.
 - The person who smokes Pall Mall rears birds.
 - The owner of the Yellow house smokes Dunhill.
 - The man living in the center house drinks milk.
 - The Norwegian lives in the first house.
 - The man who smokes Blends lives next to the one who keeps cats.
 - The man who keeps horses lives next to the man who smokes Dunhill.
 - The man who smokes Blue Master drinks beer.
 - The German smokes Prince.
 - The Norwegian lives next to the blue house.
 - The Blends smoker lives next to the one who drinks water.

MATRIX

House	#1	#2	#3	#4	#5
Color	Yellow	Blue	Red	Green	White
Natl	Norweg	Dane	Brit	German	Swede
Bevg	Water	Tea	Milk	Coffee	Beer
Smokes	Dunhill	Blends	PallM	Prince	BlueM
Pet	Cat	Horse	Birds	Fish	Dogs

PROBLEM-7

What is the most creative way you can break a clock?

PROBLEM-8

You want to design a phone for deaf people — how do you do it?

PROBLEM-9

Why should we not hire you?

PROBLEM-10

Name as many Microsoft products as you can. (Post: Associate Consultant at Microsoft).

PROBLEM-11

If you were given a box of pencils, list 10 things you could do with them that are not their traditional use?

PROBLEM-12

- You have a grocery delivery service (similar to Grofers / Big Basket) that delivers food within 24 hours. Estimate how many trucks you need to operate this service.

PROBLEM-13

- A dwarf-killing giant lines up 10 dwarfs from shortest to tallest. Each dwarf can see all the shortest dwarfs in front of him but cannot see the dwarfs behind himself. The giant randomly puts a white or black hat on each dwarf. No dwarf can see their own hat.

The giant tells all the dwarfs that he will ask each dwarf, starting with the tallest, for the color of his hat. If the dwarf answers incorrectly, the giant will kill the dwarf. Each dwarf can hear the previous answers but cannot hear when a dwarf is killed.

The dwarves are given an opportunity to collude before the hats are distributed. What strategy should be used to kill the fewest dwarfs, and what is the minimum number of dwarfs that can be saved with this strategy?

PROBLEM-14

How would you explain various types of cloud services offering / cloud computing to a 5-year-old?



