Ayush - Session 2: Intro to Computers

x = 3y = 5X and y are variables. Integer Variable 3 & 5 are values studentName = "Arjun" className="7th Grade" studentName and className are called "String variables" Some of form of data is always stored in a variable. **Binary Data** variable in the Computer Memory 100 Windows X ="Airetl Connection" => Good Y = "BSNL". => Moderate Friend is asking: X or Y: Internet Sure X = DOWN Y = DOWN **UP: TRUE DOWN: FALSE** X is Down AND Y is DOWN: No INTERNET X is UP or Y is UP: There is Internet X is DOWN or Y is UP: There is

X is FALSE AND Y is FALSE: No INTERNET X is TRUE or Y is TRUE: There is Internet X is FALSE or Y is TRUE: There is Internet X is TRUE or Y is FALSE: There is Internet

Internet X is UP or Y is Down: There is Internet

Going to the Router Light Blinking: TRUE Light Not Blinking: FALSE

X: TRUE Y: FALSE

IS INTERNET There?

ANSWER: There is Internet

Computers using CHIPS

AND Gates

2 Cups of MILK

Cup 1: 200ml of Milk Cup 2: 300ml of Milk

Put these Milks to a Big Jar: Cup 1 + Cup 2 Giving the Big Jar to your Mom:

Spoiled: FALSE Good: True

CUP 1: X Cup 2: Y

- The milk seems to be spoiled in the Big jar =>
 - Either Cup1 Milk as Spoiled and Cup 2 was Good: X is FALSE AND Y IS TRUE => X=FALSE and Y=TRUE:
 Spoiled => FALSE
 - Either Cup1 Milk and Cup2 Milk both are Spoiled: X is FALSE AND Y IS FALSE=> X=FALSE and Y=FALSE:
 Spoiled => FALSE
 - Either Cup 1 Milk was Good but Cup2 was Spoiled : X is TRUE AND Y IS FALSE => X=FALSE and Y=TRUE : Spoiled => FALSE
- The milk seems to be good in the Big jar
 - Both Cup1 and Cup2 Milk are Good: X is TRUE AND Y IS TRUE=> X=TRUE and Y=TRUE: Good=> TRUE

X is FALSE and Y is FALSE. : FALSE X is TRUE and Y is TRUE : TRUE X is FALSE and Y is TRUE : FALSE X is TRUE and Y is FALSE; FALSE

OR Gates

FORMULA

X = FALSE OR Y = FALSE : No INTERNET : FALSE X = TRUE OR Y = TRUE: There is Internet X = FALSE OR Y = TRUE: There is Internet X = TRUE OR Y = FALSE : There is Internet

AND Gates

FORMULA

X = FALSE AND Y = FALSE :: FALSE X = TRUE AND Y = TRUE: TRUE X = FALSE AND Y = TRUE: FALSE X = TRUE AND Y = FALSE :: FALSE

NOT GATES: CHIP

ANTONYMS

BAD: GOOD

TRUE: FALSE

NOR GATE for Dance Classs (NOT + OR)

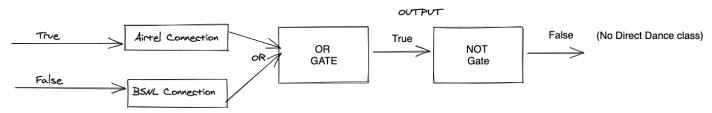
X = FALSE OR Y = FALSE : Dance Class= NOT (FALSE) : TRUE X = TRUE OR Y = TRUE: : Dance Class= NOT (TRUE) : FALSE X = FALSE OR Y = TRUE: : Dance Class= NOT (TRUE) : FALSE X = TRUE OR Y = FALSE : : Dance Class= NOT (TRUE) : FALSE

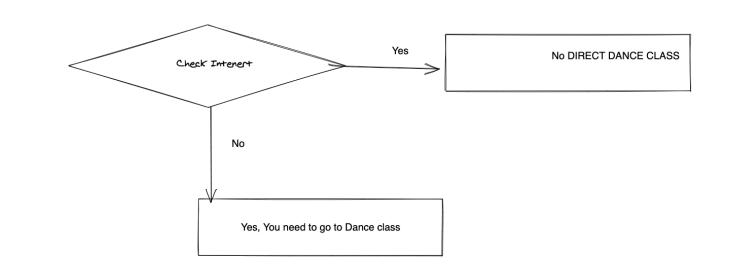
NAND GATE (NOT + AND)

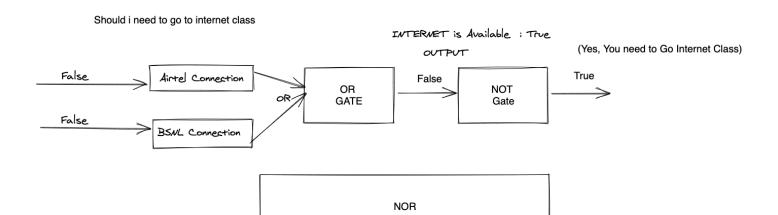
Can i use the MILK for making Paneer?

 $X = FALSE \ AND \ Y = FALSE : FALSE : NOT (FALSE) : TRUE : MILK can be used for making Paneer <math>X = TRUE \ AND \ Y = TRUE : TRUE : NOT (TRUE) : FALSE : MILK cannot be used for making Paneer <math>X = FALSE \ AND \ Y = TRUE : FALSE : NOT (FALSE) : TRUE : MILK can be used for making Paneer <math>X = TRUE \ AND \ Y = FALSE : FALSE : NOT (FALSE) : TRUE : MILK can be used for making Paneer$

INTERNET is Available : True







I am speaking here with the Mic ON:

- AUDIO Vibration is captured by the small mic
- Sends to my Laptop as Analog Signals (VOLTAGE Based/ Current Waves)
- Audio Chip: It will take the Signal of Current Waves
- Skype Server United States of America
- Skype Server will Send to Ayush Computer
- Skype: Watch for any Signals
- Receive the Signals, then will Convert the Binary Signals to a Analog Form and send Sends the WAVES to your speaker (Headphone)

< 2 seconds

Analog works based on Current Signals/Waves Digital Works within the PC/SmartPhone

Speakers: Analog Devices

BOOLEAN Logics: LOGIC Gates