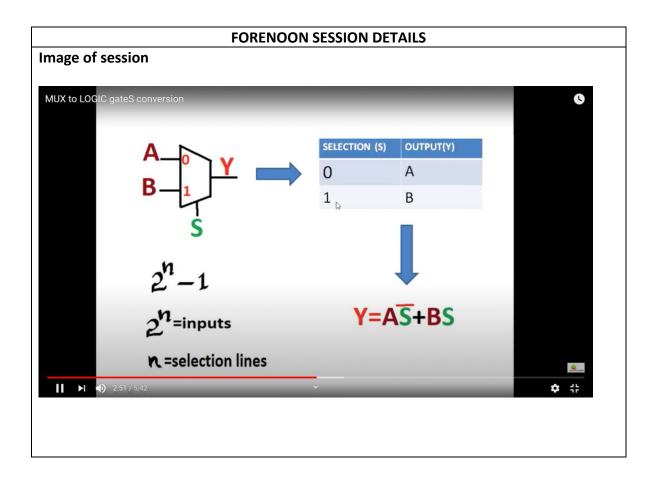
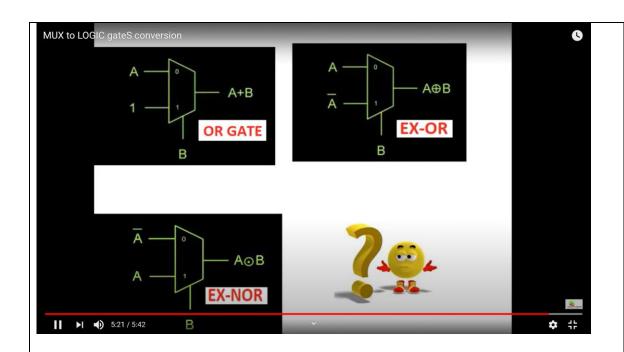
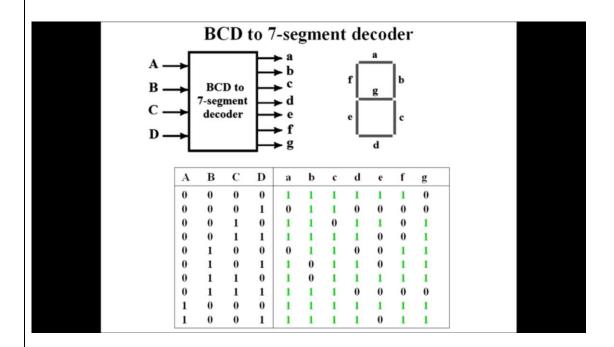
DAILY ASSESSMENT FORMAT

Date:	28/05/2020	Name:	Poorvi hj
Course:	LOGIC DESIGN	USN:	4al17ec071
Topic:	Boolean equations for digital	Semester	6th Bsec
	circuits	&	
	Conversion of MUX and	Section:	
	Decoders to logic gates.		
	design of 7 segment decoder		
	with common anode display		
Github	Poorvi-2000		
Repository:			







Report – Report can be typed or hand written for up to two pages.

```
28 05 2020 ( MARCH & BARRONAD ) S
 Boolean equations pour dipital cincuits.
 In 1854, George boole duuloped an algebraic system now called boolean algebra.
 and operation on operation Not operation

0.0 = 0

0.1 = 0

0.1 = 0

0.1 = 0

0.1 = 0

0.1 = 0

0.1 = 0

0.1 = 0

0.1 = 0

0.1 = 0

0.1 = 0
   1.0 = 0 1+0=1 ay
   1-1 = 1 1+1=1 ANC 5 AX 1333
  In boolean algebra

A+A = A 4 A.A = A

1+1 = 1 4 1.1=1
 In ordinary algebra
A + A = 2A \qquad A \cdot A = A^{2}
1 + 1 = 2 \qquad 1.1 = 1 \qquad + (-6d-) \text{ min} \left( + (-6d-) \cdot 0 \right)
(5) (0) (21) = x

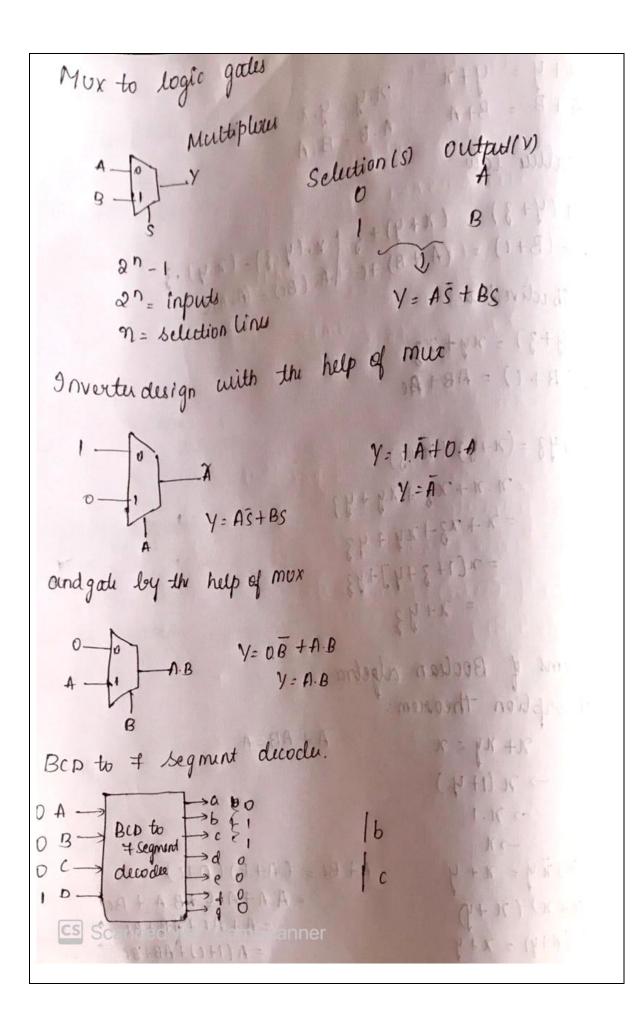
1 4 dentity element": OR operation
                                                AND operation
The additive identity: (0'
The additive identity: 1'
The multiplication identity: 1'
                                                                     1, 11:1
```

Laws of Boolean Algebra (i) commutative law: A+B=B+A $A\cdot B=B\cdot A$ (ii) Association law 21+(4+3) = (x+4)+3 (x.(4.3)=(x.4).3 A+ (B+1) = (A+B)+1 A. (B1) = (A.B)C (iii) dustributive law 1 n selection line o x(y+3) = xy+x3 | b and into about approximation A (B+1) = AB+AC 2+43 = (x+4) (x+3) =n.n+x 3 + xy+y3 = 7 + 23 + 24 + 43 = x(1+3+4]+43 xum | = 2+43 Theorems of Boolean algebra 1) Absorption theorem: 21+ 21y = 21 -> n (1+4) (b) n+ny=n+y A+BC = (A+B)(A+C) (n+ x) (n+y) = A A + A . C + B. A + BC 1. (N+y) = x+y =A+AC+AB+BC

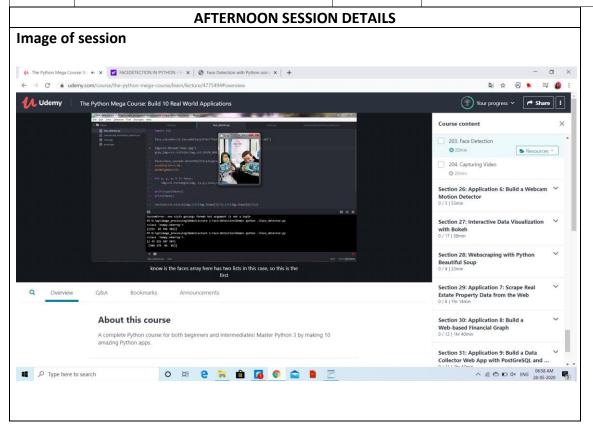
A + A B = A+B

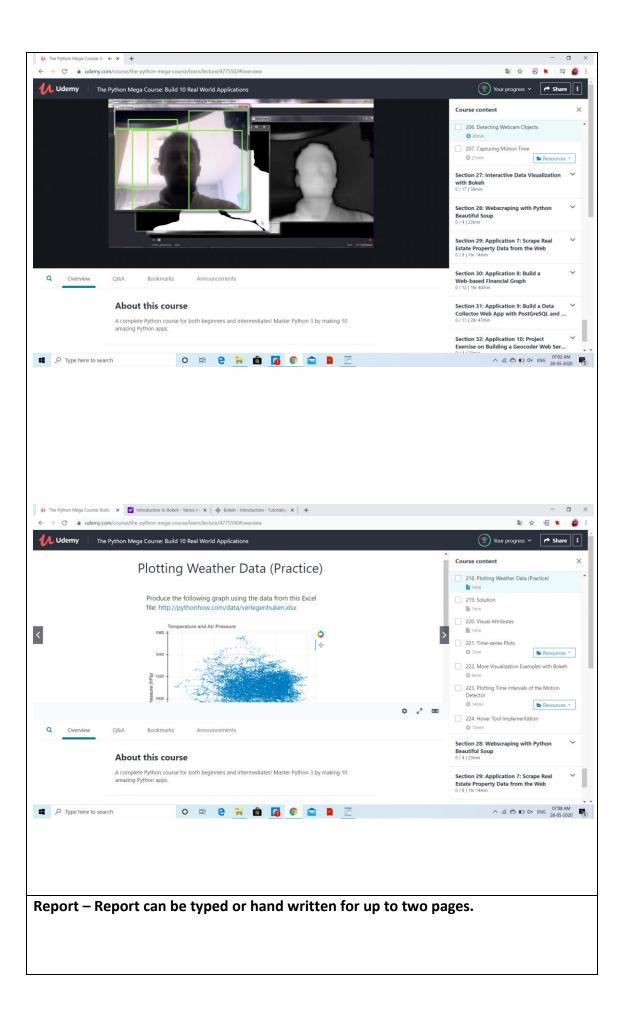
= A (1+c) + AB+BC

= A + AB + BC = A+BC



Date:	28/05/2020	Name:	Poorvi j
Course:	PYTHON	USN:	4AL17EC071
Topic:	Python for Image and Video	Semester	6th Bsec
-	Processing with OpenCV	& Section:	
	Build a Webcam		
	Motion Detector		
	Interactive Data Visualization		
	with Bokeh		





- PIL is the Python Imaging Library which provides the python interpreter with image editing capabilities. It was developed by Fredrik Lundh and several other contributors.
- The Python Imaging Library supports a wide variety of raster file formats. Over 30 different file formats can be identified and read by the library. Write support is less extensive, but most common interchange and presentation formats are supported.
- Face detection is a computer vision technology that helps to locate/visualize human faces in digital images.
- Pre-requisites. Hands-on knowledge of Numpy and Matplotlib is essential before working on the concepts of OpenCV. Make sure that you have the following packages installed and running before installing OpenCV.
- OpenCV was started at Intel in the year 1999 by Gary Bradsky. The first release came a little later in the year 2000.
- OpenCV was started at Intel in the year 1999 by Gary Bradsky. The first release came a little later in the year 2000. OpenCV essentially stands for Open Source Computer Vision Library. Although it is written in optimized C/C++, it has interfaces for Python and Java along with C++. OpenCV boasts of an active user base all over the world with its use increasing day by day due to the surge in computer vision applications.
- Bokeh is a data visualization library for Python. Unlike Matplotlib and Seaborn, they are also Python packages for data visualization, Bokeh renders its plots using HTML and JavaScript. Hence, it proves to be extremely useful for developing web based dashboards.
- The Bokeh project is sponsored by NumFocus also supports PyData, an educational program, involved in development of other important tools such as NumPy, Pandas and more. Bokeh can easily connect with these tools and produce interactive plots, dashboards and data applications.
- Bokeh primarily converts the data source into a JSON file which is used as
 input for BokehJS, a JavaScript library, which in turn is written in TypeScript
 and renders the visualizations in modern browsers.

