Lecture Name	Detailed conce
ton read_filters_a	no_make_query(){var a=get_f

"Programming Fundamentals-1(JavaScript)"

epts

1	Variables	Variables in JS (var and let keyword)
_	variables	valiables ii 35 (val aliu let keywolu)

2 I/O Operators Input and Output operations including datatypes

3 Arithmetic Operators Arithmetic operators in JS(*,+,-,/)

4 Conditionals Conditional statements using Scratch, JS and Python

5 Loops in Javascript (for loop)

6 Loops-2 while and do while loop

7 Functions Function in JS(inbuilt and custom functions

8 Arrays Quiz game using Arrays

"Programming Fundamentals-2 (JavaScript)"

9 Strings Strings in JS(concatenation.multiline strings)

Objects

Virtual food menu application using objects

11 Random Function Creating Music Player using Random function

Javascript Game-How Guessing game using random function many Fingers

14

Web & Games Development

Introduction to Web development, HTML / CSS / JS (heading and paragraph tags and text formatting, making wikipedia page)

HTML links, images,
HTML links, images and lists tags (creating a collection of movies website)

Lect	Lecture Name Detailed concepts	
15	HTML tables and forms	HTML tables and form tags (Creating a registration form)
16	HTML entities	HTML entities and creating a Survey form
17	Into to Web CSS	Introduction to CSS and CSS selectors
18	CSS fonts, colors and borders	How to insert fonts, colors and borders on a web page using CSS
19	CSS box model	Box model and alignment in CSS for a webpage
20	CSS hyperlinks and buttons	Styling hyperlinks and buttons, learning navigation bar using CSS
21	Client side language-JS	Introduction to JS for web (language of the web)
22	CSS padding,hover	Creating a project, a website using HTML+CSS+JS
23	Accessing elements in JS	Creating a project, a website using HTML+CSS+JS
	Alaman Cara	Database
24	INTRO TO SQL	Database Introduction to SQL(query,Record,Field,Entity)
24	INTRO TO SQL DDL,DML	The state of the s
		Introduction to SQL(query,Record,Field,Entity)
25	DDL,DML	Introduction to SQL(query,Record,Field,Entity) DDL(Create,Drop,Rename,Truncate),DML(Select,Insert,Delete)
25 26	DDL,DML DCL,TCL	Introduction to SQL(query,Record,Field,Entity) DDL(Create,Drop,Rename,Truncate),DML(Select,Insert,Delete) DCL(Grant,Revoke),TCL(Commit,Rollback)
25 26 27	DDL,DML DCL,TCL PRIMARY KEYS	Introduction to SQL(query,Record,Field,Entity) DDL(Create,Drop,Rename,Truncate),DML(Select,Insert,Delete) DCL(Grant,Revoke),TCL(Commit,Rollback) Introduction to Primary key in Database
25 26 27 28	DDL,DML DCL,TCL PRIMARY KEYS FOREIGN KEYS	Introduction to SQL(query,Record,Field,Entity) DDL(Create,Drop,Rename,Truncate) ,DML(Select,Insert,Delete) DCL(Grant,Revoke),TCL(Commit,Rollback) Introduction to Primary key in Database Introduction to Foreign Keys in Database
25 26 27 28 29	DDL,DML DCL,TCL PRIMARY KEYS FOREIGN KEYS AGGREGATE FUNCTIONS	Introduction to SQL(query,Record,Field,Entity) DDL(Create,Drop,Rename,Truncate),DML(Select,Insert,Delete) DCL(Grant,Revoke),TCL(Commit,Rollback) Introduction to Primary key in Database Introduction to Foreign Keys in Database Aggregate functions(Count,Group By,Having,Order By)

ı	_ec	ture Name	Detailed concepts
	WIII	cao_ifftens_d	nu_make_query(){vor amget_filters_val
			App development-1
	33	Introduction to Thunkable	Introduction to apps, interface, frontend and backend, explaining different components on a screen
П	34	Alarm Clock	An alarm clock app using thunkable with start and stop functionalities
	35	Simple Claculator Part-1	Creating calculator app using thunkable app(design)
П	36	Simple Claculator Part-2	Creating calculator app using thunkable app(design + coding)
	37	Login & Registration Part-1	Replicating the user login (username and password) with a app interface(design)
	38	Login & Registration Part-2	Replicating the user login (username and password) with a app interface(design+coding)(variable)
	39	Tic Tac Toe Part-1	Tic Tac Toe using thunkable (using buttons for designing)
	40	Tic Tac Toe Part-2	Tic Tac Toe using conditionals and variables for the logic
	41	IOT My Sesnsor App Part-1	IOT My Sensor App using thunkable (Explain IOT before the project)
	42	Digital Doodler Part-1	IOT My Sensor App using thunkable (designing)
	43	Digital Doodler Part-2	IOT My Sensor App using thunkable (Coding)
	44	Online Chat APP using firebase-1	Digital Doodler-(designing)
		(Ampleoneety/	App development-2
	45	Online Chat APP using firebase2	Digital Doodler-(coding)
	46	Space game-1	Intro to fiebase database
	47	Space game-2	Designing of the app

logic for the app

48

Space game-3

Lecture Name

Detailed concepts

PYTHON FUNDAMENTALS

	CON SECTION	TS Values(a){var b=s(//S//MG cattings
49	I/O Operators	Input and Output operations including datatypes
50	Arithmetic Operators	Arithmetic operators JS and creating a basic calculator
51	Conditional Statements	Conditional statements using Python
52	Loops	Loops in Python (for, while, infinite)
53	Fuctions	Functions in Python(creating and calling a function)
54	Break and Continue Statement	Introduction to break and continue statement
55	List	Introduction to List in python.Accessing elements in the list
56	Tuples	Introduction of tuples in python. Difference betwwen list and tuples
57	Object oriented programming	Introduction to classes and objects in the python
58	Dictionary	Introduction to Dictionary (key -valus pairs)
59	Random Function	A virtual tables revision teacher, coded in a program using random numbers and multiplication logic
60	Python Projects	Rock, Paper and Scissors Game with computer as the second player (includes all the concepts taught till now)
f) A	much (all la) 1 to	TIME etata filtane back-back-property/ or

ARTIFICIAL INTELLIGENCE

61	Intro to Artificial Intelligence	Introduction to Artificial Intelligence .Aplications of Al
62	lmage recognition	Image Recognition using teachable machine
63	Voice recognition	Voice recognition using teachable machine
64	Types of Machine Learning	Types of ML- Supervised and Unsupervised learning using dataset
65	NLP	NLP based project using Python NLTK library

L	_ect	ture Name	Detailed concepts
	66	AI - APIs	Introduction to Artificial Inteeligence - APIs
	67	Turtle Library	Introduction to turtle library in python
	68	Introduction to Deep Learning	Introduction to Deep Learning .Why deep Learning came into picture
	69	Sentiment Analysis-1	Sentiment Analysis project using exisiting data
	70	Sentiment Analysis-2	Project continued
	003	/_state(a,b){'	AR/VR
	- (7)	(\$(000y).to	greciess(noscroll)}501>window.screen
	71	Intro to AR/VR	Intro to AR /VR and difference bewtween them
	72	AR	Introduction to Augmented Reality
	73	VR	Introduction to Virtual Reality
	74	PROJECT ON VR	Create a project on VR using instaVr
	75	PROJECT ON VR	project continued
	ROBOTICS		
	76	Introduction to Hardware	Introduction to the Arduino
	77	Block Based Coding	Coding arduino devices with hardware devices interfacing and using block based coding.
	78	Input / Ouput	Input and Ouput – Taking Input from the user, displaying the results
	79	led blinking	Introduction to led blink (default dealy of 1000 milisconds)
	80	led fading	Fading the led

