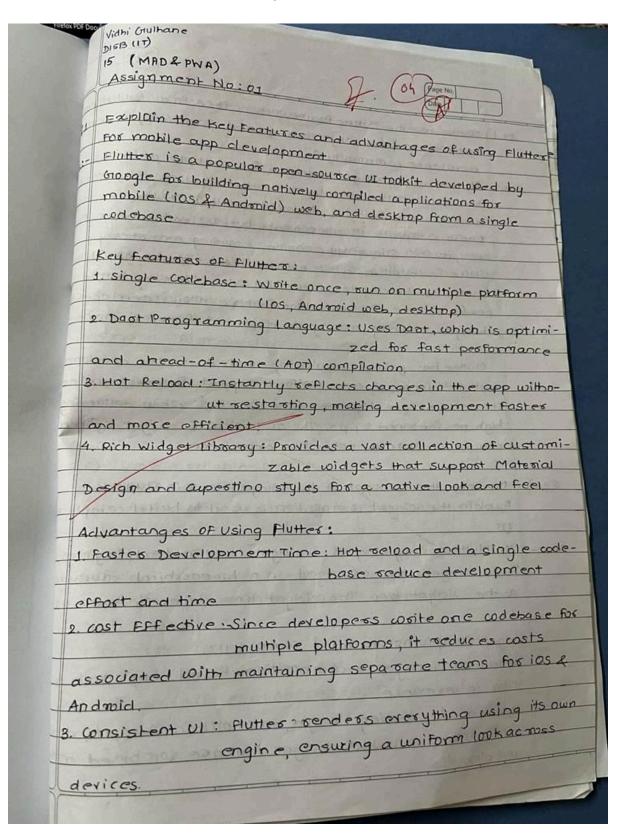
Assignment No: 01



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	Butter Framework air oppulatily in the	20051
(01 b	Discuss how the flutter framework differs from the approaches ? and why it has gained popularly in the approaches ? and why it has gained popularly in the	PEON
	- munity	1000
	development single codebase to	17 St
Ansi-	approaches ? and why approaches ? and why developes community? developes community? Fluttes uses a single codebase for multiple platforms, until Fluttes uses a single codebase for m	. 50
	phisomo -specific vi components but instead render every	.00
9194	- specific UI components will consistency.	· c
	phisom -specific vi components bensuring consistency. using its own stia graphic engine, ensuring consistency. using its own stia graphic engine a Tavascript bridge, Autter	
	using its own skia graphic engine, etc. using its own skia graphic engine, etc. unlike Peact Native, which uses a Javascript bridge, Autter unlike Peact Native, which uses a Javascript bridge, Autter unlike Peact Native, which uses a Javascript bridge, Autter	0
	unlike Fract Native, which assessed wide, offering bottes recompiles disectly to native ARM wide, offering bottes recompiles disectly to native ARM wide, offering bottes	27
	performance. Its hot solvand feature allows developes tose	4 410
	changes lastantly, making development faster & more eff	138
200	entering the second sec	
	Flutter has gained populating due to its faster development	3)
	cost efficiency, & cross platform support Business prefer in	P
disco 19	it reduces development time & chosts while delivering	1 .1 .
3	it seduces developed the austomizable widget system	
	high performance apps. Its austomizable widget system	100
10 15 115	ensures a smooth, native like experience	4)
		200
(29)	Describe the concept of the widget tree in flutter. Describe the concept of the widget tree in flutter.	11/10
	Describe the concept of the wings Explain the widget composition is used to build complexe	molo
	DT	-
	In Alutter everything is a widget (button, text, lay outs etc.	
		1130
Tale!	as the widget tree The widget tree determines the uz	
	as the widget 1600 the writer	_
2000	show and attack expends take many a	130
	idget composition to build complexui:	-
W	suffer composition - based approach sof	
• P	TUMOS ETWO CONTENTS	20
H	nstead of creating large, monolithic widget, devel	00
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	nstead of recating large, monolithic wind to for build small, rewable widget that are umbined to for	
	build sman, setsable arrigit	-
	omplex UIs.	

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2) Interactive Widget	200
mace of ilextheid: 100 cs. 5 mpc	<u> </u>
· Flevet ad Button: clickable buttons	17/25
exelopme	
system 3 styling Widget	
elivering : Padding : Adds spacing around widget	KIL
system Align centre: Adjust alignment	
UI Small daps, atmale UI wedness Leg. toggilled a	1000
4) List & scrollable widget to day source	
s vistview: scrollable list	
emplex " broidview :- Provide/ Display items in Oroid	120
Plyerand Hour Scalable than Provider with charge	
youts et ex. simple widget Tree	
veture 1 scaffold (1) 2 3 14 0 10 2 2 3 0 14 10 0000 00 0 14 10 0000	49
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Elevared Button confressed: 1) & 3 child: Text !"	lick
develo	1
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Integrating Fivebase with Plutter & its 8, Loist	19
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g	Discuss the importance of state management in Flut
Ans	- Important of state Management in Hutter appropriate
16	state Management refers to handling dynamic data
	that changes avectime
	In fluttes the UI schuilds when the state charge,
	ensuring the app remains literactive a
1000	Propes state management helps in period
*	optimization, code maintainability & better UI behavior y
Q3 b)	compare and contrast the different state manager de
	in Autter approches available in Autter, such as
	setstate, provides & Riverpod, provide scenarios
	where each approch is suitable
Ans:	comparison of state Management Approaches in Al
	Approach Description Suitable Scenatios sersite
	Basic state Management by calling setstate() to up
	UI. small apps, simple UI updates leg., toggling as
	Provider user inherited Widget to efficiently manag
	state across the widget tree. Medium sized apps
	needing global state sharing le.g., user authornical
	RiverpodMose scalable than provider with improved
	dependency injection & state handling. Large, comp
	apps requising modular & scalable state manager
	(e.g o commerce apps)
	L backy common
249)	Explain the process of integrating Frombase with
	putter application
NO WEST	Discuss the benifits of using Asobase as a backend
100	solution.
s:-	Integrating Fischase with flutters & its Benifits:

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lo.	Integration Process:
	Setup Asebase Console:
ot in Fl	before is delicated
Applica	coeqte a fixebase project
data	register the App to android & ios
The state of the s	nownload & add google-services ison (Android) or
ang as,	moogle service- Info. plist (i os).
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	no need to the stigation database & cloud twice,
chens	No need to manage servers (Backend-as-a Provide authentication, database & cloud functo,
	scalable & cost - effective.
3'ts:-	
113.	

	Date
341)	Highlight the fixebase services commonly used in flutter development & provide brief overview of how data
3000	synchronizar is achieved.
ns:-	commonly used fisebase services
	conizon service huldrend
(51)	Asebase Authernical and acadenie acade
	OOK) Cloud Fisestore Norge standing files (1 mag
	videos) cloud messaging push nonfications, fisebase
	Videos) Cloud messigns
	Analytics App usage analytics
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6-15W	NO aged to manage serves (Backenders-a-Ser
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1 30	Provide authentication, database & cloud hu
	Scotoble & cost - effective
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