	Assignment - 01
Q1)	
و	key Features
41 T	
	-) single codebase:
	flutter ollows developer to write
	code once and deploy it on both
	ios & Android plattorms. This reduces
	development time & ettorts composed
1	to maintaining separate codebost
	tor each problem.
	-) Hot Priood:
	one of flutter's standaut feature is
	Hot Peload, which allows to develope
	instantly see the result of code
4 1-	changes without restarting the entire
	application,
	J Dort programming longuage:
	Flutter uses part as its programming
	language, which is designed to
	building web, mobile
	application.
Sundaram	
	FOR EDUCATIONAL USE

	Advontages:
	-) Faster Development;
	This obility to use a single codebase
	4 the not reload feature signiticantly
	speed up the process development
	-) cost- ffficient:
	Developing and maintaining a single
	codebose for mouthple platform reduce
	development rost
4	
0.1	
Ø1	- Tale !
Ø1 Ь)	flutter ditter from traditional
	flutter ditter trom traditional approaches to mobile app development
	flutter differ from traditional approached to mobile app development in Several ways tits unique
	flutter differ from traditional approached to mobile app development in Several ways tits unique
	flutter differ from traditional approached to mobile app development in Several ways fits unique features contribute to its popularity in the developer community. Here
	flutter differ from traditional approached to mobile app development in Several ways fits unique features contribute to its popularity in the developer community. Here are some key diffrentiator f
	flutter differ from traditional approached to mobile app development in Several ways fits unique features contribute to its popularity in the developer community. Here
ь)	flutter differ from traditional approached to mobile app development in Several ways first unique features contribute to its popularity in the developer community. Here are some key diffrentiator f reasons for flutter's popularity:
	flutter ditter trom traditional approached to mobile app development in Several ways of its unique tratures contributed to its popularity in the developer community. Here are some key dittrentiator of reasons for flutter's popularity:  single codebase for multiple platform;
ь)	flutter differ from traditional approached to mobile app development in Several ways fits unique teatures contribute to its popularity in the developer community. Here are some key diffrentiator f neasons for flutter's popularity:  single codebase for multiple platform:  o Traditional approach! with flutter,
ь)	flutter ditter trom traditional approached to mobile app development in Several ways of its unique teatures contribute to its popularity in the developer community. Here are some key dittrentiator of reasons for flutter's popularity:  single codebase for multiple platform:

	expression user interfored custom
	animation f: transition can be
	implemented easily.
Q2)	
0)	widget Tree!
• 4	Hierarchy of widgets:
	year and a
	the widgets tree is a hierarchial
	structure where each widget server
	a specific purpose & con contain
	other widgets.
	A STATE OF THE STA
٦	Immatable of peusable:
	widget is flutter meaning they connot
	be changed once created.
	when change is needed, or new
	widget is created
4	Building Blocks:
	flutter encourage a composition-based
	opproach to UI construction
Sundaram	FOR EDUCATIONAL USE

92 b) 1) containors The 'container' widget is a versatile box model that can contain other widgeH ex. container Padding: Fage insert all (16) margin: Edge insert. Symmetric (8.0) de coration: Box Decoration ( color: colors. blue, child: Text( 'This is a containes') @ ROW of column: These widgets allow for the orronge ment of child widgets horizontally } vortically. Sundaram FOR EDUCATIONAL USE

```
Row
           children: [
             lean (leans. ston),
                Text( 'Sstor')
       column [
          children: [
TRX+ ('TiHe')
               Text ( subtitle)
  93)
        state monogement influtter is
        crucial tor!
   0
                                    user interaction
      Pesponsivenell: UI based on
        dynamic data changel
        tot Reload: relot teature
Sundaram
                       FOR EDUCATIONAL USE
```

	Conhant
<u></u>	Dynamic UI: Enables dynamic content
	updates & responsiveness to externa
	factor
	The said of the said
93)	
6)	
0	set state:
6	characteristics
	- Built-in tutter method
	-> simple of suitable for local state
	within a widget
	-> cimited to the scope of single
	widget
	wigger
0	Use case
	- suitable for small to medium
	applications with limited shared state
1624	a guick of straight forward
	implementation
T. HILL	
THE TANK	
The state of the s	
Sundaram)	FOR EDUCATIONAL USE

	2) Provides;
	e characteristice!
	- fxternal package offering variety
	of state management.
	y supports different types of states
9	use casel.
	I shared state across multiple
	coldgets
	I monaging dependency injection efficients
	3) River Pod
	o characteristics
	A Advanced state management solution
	I support both synchronous of asynchronay
	state changey
121	o use cas cole:
	-) complex application with a need
	for scalability
	y project that can benitit from
	provider like solution.
-	
Sundaram	FOR EDUCATIONAL USE