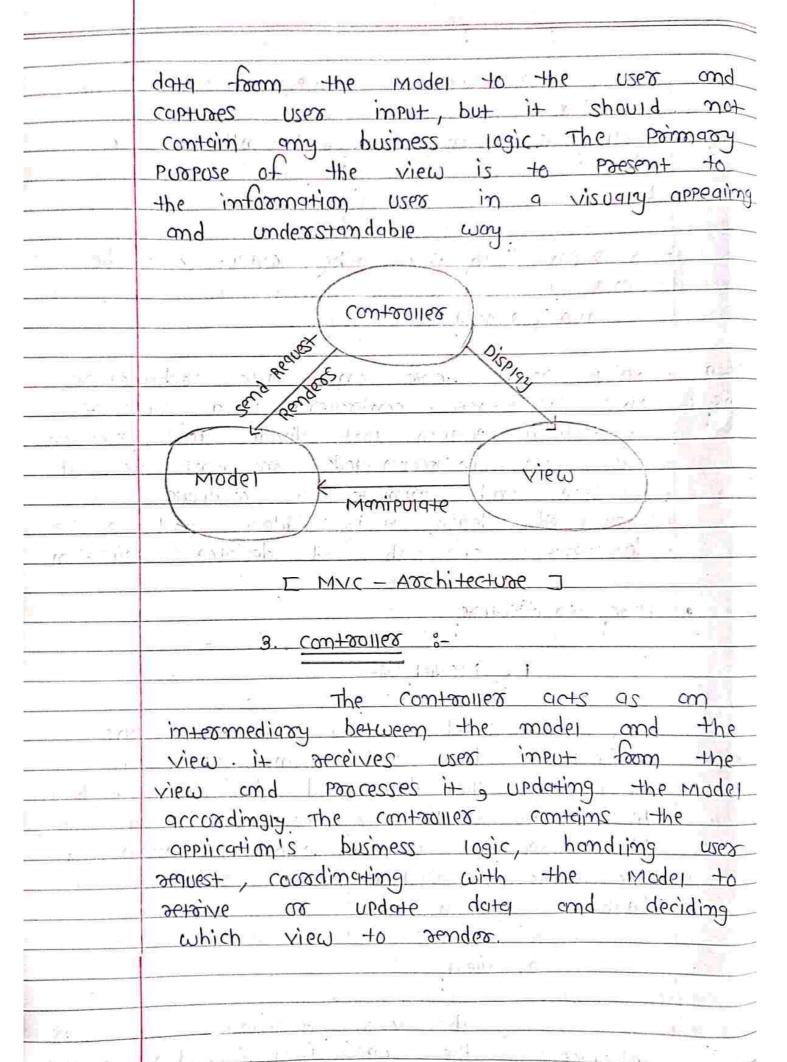
T.	
	Assignment 8- 1
20 H	
0-1	What is proops on be passed to
c : 577: 158	ciass and tunctional components 9
Ams :-	Props stands for " properties". They are read-
	only components it is an object which stores
	the value of attributes of a tag and
	work similar to the Hmy attributes. it
	gives a way to pass data from one to
16/1	components other components it is a similar
7/5/14/2	to function arguments. Props are passed to the
	component in the same way as assuments
	Passed in a timotion.
	Threshold to top on the party periods .
	> Poops are immutable so we connot modify
	the poors from inside the component
* _V =	> inside the components, we can add attaibutes
	is called Props
	> These attaibutes are available in the component
	as this poops and can be used to sender
	dynamic dates in our sendor method.
	a si A
	-> when you need immutable data in the
h, -1	component, you have to add props to
-	seart-Dom. sender () method in the main is
	file of your react-us project and used it
	inside the component in which you need.
18	
-	- 7 React components use Props to communicate
	with each other.
1 L.//	
EN	> Every Parent component can Pass one
	information to its child components by
	giving them poops.

-> Poors might semind you of Html attaibutes, but you can pass any javascoip value through them, including objects oracys and functions. > In order to to make props accessible: a function component you need to pass the props grogument to the function and then you can ares props by using the props object inside the function Passing Props to Functional Components: import React from 1200ct 1; (const Gareting = (29009) => of zeturn < h1> Hello & Props name 3 1 < 1 h17; Const APP = () => & seturn < Greeting name = " Ram" />; Sp. 32 5141 <u> }</u> expost default APP; -> we have a functional component called 1 Gareting, which secrives the 1 POOPS! object s as its parameter. Passing Poops to Class component: import React of component & from 1 react 1; class Gareting extends component of senges () of actuam < hi>) Hello , of this paops mame 3! < 1 hi> i

- E	C1955 APP extends component of
l la	sender () of
1 4 2	setum < Greeting name = "Ram" />;
V	3 results a section of the section o
Service of	3
1.	
1	In both cases the output will be
	some as :-
	Hello , Rom 1
	- Y
0-2	waite Detail more on MVC architecture
Ams %-	
	architectural pattern that divides an application
1	into these intexconnected components to specific
	concerns and promote a modular and
	organized design it is widery used in the
	development of web and desktop application
	THE WEB SHO GESETOP SPRINGERON
	1.89
	\$175 Luc 6
	1. <u>Model</u> :-
-	The model represents the
+ 7	application's data and business logic. it
	encapsulates the data and business method
	to interact with the manipulate that date
1	This component is responsible for managing
La La V	the application's state, data validation and
lon	database operations.
	2. <u>view</u> :-
	Z. VIXU 0
	The view sepresents the user
N.	interface of the application it displays the



D-3	Differentiate between	
1 7	· Real DOW and rivetod	IL DOM
1 2 -		
	Regi Dom	
	(1) Bowl manipulation is	(1) DOM manipulation is
	Very expensive.	very ease
MA SI	(2) There is too much	
71	memory wastage	
Or Land	(3) it updates slow	£
	(4). it can directly update	*
la villa	HTML	
75	(5) Grates a new Damif	
Mary Control	the element updates	
	(6). i+ allow us to disectly	(G). it com Produce about
		200,000 Motual Dom nedes
	(7) it sepsesents the UI	
	of your application	representation of the DOM.
	la amociul	acu la suo
	use vierno and use call b	4616 1100162
	usememo	usecanhack
	(1) memoizes the result	
	of a finition can	
	(2) Returns the memoized	(2) Retions the memoized
	8	finction
	can used when you want	
<del> </del>	to avoid be- computing q	to Prevent imperestant
	to avoid of compositing 4.	20 marion als fraction
4	value on every render	or poom last of
	(4) pependencies care provided	(4) Dependencies de
	to control when the	PROVIDED TO COLOR
	value should be	when the finition
Luc	secarculated.	Should be se-contained.
N 7	(5) Usememo focuses on	(5). Use can back to cuses an
	avoiding heavery colculation	avoiding different thing.

	Assignment o-
	1 10 100 51 W 100 1 10 E
	waite note on :-
	2. O t 1 007 1.000 1
	Anguico Filters And Controller :-
•	Anguica Hitess Hite
	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
DOC ITA	1. Amguias Files 1 8- 1
	Im Angular is, filters are used to
	format data Following is a list of filters
-	used for toms forming data
3	Used 4 - 106 + rooms 100 min 1)
printed by	1 alvar 1 Co
	(1). currency :- it formats a number to a
8	Churchen Churchen Ch + Comot
n nje r	(2) Date : it formats a date to a specifical
	formation of the formation
J. 65	(3) Filter & H select 9 subset of item
I MA SI	(3). Hiteld of the state on all allowing
	A STATE OF THE PARTY OF THE PAR
	(1) 550m = i+ fromats on object to 9
	JSM String.
	(5), Limit :- it is used to imit on coose
	into a specified number of
	element,
IG ST TOV	(6). Lowercase 3- it from 9+3 a string to lower
(1)	
	case.
- 17 1f	(7). Number :- it tormats a number to a
	String.
3	(8) orderby :- it orders on group by on
XDX *	exmession
5 4 JE 10	(92. UPPERCASE &- it formats a stains to uppercase
- VIII - III - III	CONTRACTOR OF THE MAN TO THE TOTAL OF THE MAN TO THE MAN THE TOTAL OF THE MAN THE TOTAL OF THE MAN THE TOTAL OF THE TOTAL
1	2. Controller :-
1/	COMPANY NOT THE STATE OF THE ST
	Angulax of controllers control this
ST 21	data of Angular of applications. Angular of
The state of the s	Controlled age geanness Javascojet opjects
	25/360 Taloschan and associate opley?

parentenesser often percold . Angular as applications are controlled by controllers. The ng- controller directive defines the application controller. A controller is a Javascoipt Object Good ted by a standard Java script object constauctor. -> Each controller cicrepts \$ score as a which parameter refers to the application / module that controller is to control • Example of controller :-Z div ng- app = "myApp" ng- controlled="myctol"; First Name 18-< input type - "text " ng - moder - "fixt Name"> turned on < box man and a real state on the deposition Last Name 3-< input type = " text " mg - moder - " 195+ Nome ") m < bo> 1 fein mann met met afet. FUII Name :- 11 11 + Ias+Name 33 Var app = anguigo module (1 myapp) [] app. controller (1 my ctol) - function (\$ scape) of \$ scope . first Name - 11 Dhisullis g STOPE . 195+ Mame - 11 Saij 11; 3) </script > a late for Strendy C2-41 There is the example of controller of Angular. 35 in the second at a series to the series of t > In above example ng- controller is wed

	HOOKS with Advantages :-
- 1	A TOTAL STATE OF THE STATE OF T
N - 1-11	React Hooks are a type of function
-11	that allows the using to hook into react
1.8	state and life-cycle features from function
	components React provides built - in hooks
	ince usestate, useeffect, use Reduces, use Ref.
	TIKE DSESTATE, USERTIECT, USERRITURES, USEREI,
	usecallback, usecontext, and usememo and
- N - N	we can giso coente your own custom
	hooks
	- > React hooks one available from React
	version of 16.8.
H . 800	NAME OF A CONTRACT OF A SAME OF
	-> Before the introduction of hooks, the
	state can be maintained any in the class
	Component not in the functional component
	Comments the transferre
	The state of the s
	- 7 After the introduction of hooks, the
	state con be maintained in functional
	component too.
	The idea of using hooks makes it
	Possible to coeqte full - fiedged functional
- 1	companent while using an React features.
5-7-3	TO MARKET A SOUTH TO THE PARTY OF THE PARTY
	Advantages of Hooks :-
v . a	TOTAL STATE OF A STATE
=	1. Modulcoity :-
	enabina developers to someth modularly by
	enabling developers to separate different
	con cerns and functionalities into discrevite
	units. Helps organize code into separate
- b	Umits.

w.d. zi	2. Reusability 3-
14 F	
	Enables showing of code grosss
	different parts of the application. This
	seduces sedundant code and prompts a
	more efficient development process.
991 7.1	AL NO.
of all	3. Customization 3-
4.51	13 m 18 for 12 m
	Easilize adapt the software to
	specific requirement. Hooks allow for easy
	customization and extensibility of an application.
11.	4. Testing :-
1 4 1 1	4. 31 9 077 1 H W S 079 1 MS 1
101 F E I	Equilities easier testing and
Cu.L	debugging this com improve the overall
* *	ovaity and seijability of the application
-	
52.5	5. <u>seraration</u> of <u>concerns</u> :-
[13] /	Lie also Cupacat albo mimoi pue se
	separation of concerns, where different parts
<b>V</b>	
CV I	of an application handle distinct tunctions.
	C Pacadahinilar
No. Base	6. Readability 8-
Stor P	
1894	by encapsulating specific functionalities within
201 (Part 1)	by encarsolating specific intermediates marin
	named hooks,
ive en	7. Performance :-
2101	The second of the second secon
	well-designed hooks can lead

	to improved performance since they can be
	againsized independently. Allows optimization of
	coitical functionalities independently.
4.1	and the second s
	8. Community contributions:
	B 4/8/2 TOTAL MANAGEMENT OF THE STATE OF THE
	HOOKS encourge a modular and
	extensible design, making it easier for the
	community to contaibute to open - source
	Popiects.
A. ji i	d average services designed to the contraction of t
	Explain React components in detail.
- Y	
-: 2 <u>mA</u>	components are like functions that
	seturn HTML elements components are independent
71	Δ
	same purpose as Javascript functions, but
ħ:	work in isolchion and return HTML.
	-> component is considered as the core
	building blocks of a React application.
	The second self the second sec
2015 X 1 1	-> it makes the task of building UTS
y(197 o	much easier
	> Each component exists in the some
X	space, but they work independently from
and i	one another and merge all in a parent
<u>%</u> 98° ≥176	component, which will be the final UI
	of your application
	> Every React Component have their own
	Stoucture, methods as well as APIS.
This t	6. 10. 13. 14 10

	-> They can be reusable as Per your
	need, for better understanding, consider
a Cural	the entire UI as a tree.
	mary of your stance Trouble Thanks i will in
E 11	- 7 Here the goot is the starting component
56 N. U.S.	and each of the other pieces becomes
	borgaches, which are further divided into
	sub-boan ches. 20 20 20 10 10 10 10 10 10 10 10 10 10 10 10 10
	r really and the thousand the sections to see the
	In React of the have mainly two
	types of components They Are.
	1. Fun ctional components
	2. CIASS COMPONENTS.
	-Arc complete and the second of the second o
H.	1. Functional Components:
k W. T	In React, function components core
	a way to write components that onry
	contain a sender method and don't have
71	
	functions that may not may not deceive
1	data as parameters. we can coeate a
17.147	function that takes props as imput and
	be sendezed.
	\$ 700 P
	Example 8-
a vo	Andrew to the second
	function welcome Message (Props) &
No.	actum < hi>> Hello , & props . namez >
6917	Qdille should of someth or
45.4	· THE THE TRANSPORT OF THE PROPERTY OF THE PRO
Was at	The functional component is also known
odto.	as a stateless component because they do
	not hold or manage state.

. X.107	2. <u>Class Components</u> :-
27/2/20	A The Transfer of the Curde
	A class component must include
	the extends React component statement.
#63/13/10/15	This statement coeartes on inheritence to
- 4 DARK 1 47	React : component, and sives your component
win.	access to React Component's functions. The
	component also service a sender of method,
	this methods seturns Html class component
1 31 price	are more complex than functional components.
	TA (1941. Bus Mounts) 1. Cadi;
•	
· · · · · · · · · · · · · · · · · · ·	at strong serring a series of
	class car extends React. component ?
9	senges county in a few of
	seturn < hi> I am a cor! hi is
1.17 1.17	10 grant security of the second of the secon
	3 All Friday vagors to the second of the
Late (f) $\mathcal{E}' = -1^{-6}$	rate bord beginne kalanik r met in
Master of the	-> Here above example CAR is extends
<u> </u>	by React component in the class component
0_3	THE PARTY OF THE P
_ <i>p</i> − 3	what is an angular directive of Explain
	mg-app en emoder and mg-bind with
	example.
	Supplied to
	Angular Js facilities you to extend html
	with new attributes these attributes are
2201	called directives. There is a set of built-
	in directive in Angular us which offers
<u> </u>	functionality to your applications. you can
Ci Little I	also define your own directive Directive
ind i	gre spe cial attributes starting with mg -
	poefix.

. .

	> Angular directive begin with my- where
1. 69	ng stands for Angular and extends herni
	tags with @directive decorator
	classes that can add new behavior to the
d	elements in the template or modify existing
	behavior.
MA BY	The state of the second of the
	-> The purpose of directives in Angular is
	to maneuver the Dam, be it by adding
	new elements to DCM or semoving elements
	and even changing the appearance of the
X	Dom elements
	· I promote state of the
	mg - app 10 10 10 10 10 10 10 10 10 10 10 10 10
	THE TOTAL CONTRACT OF THE PARTY
Silp v	The mg-app directive is used to
7. 7	define the soot element of an Angulax Js
	application. it specifies the mame of the
	Angular Js module to be used in the
Hall And	application.
the total	11 - 1 - 10 - 10 - 10 - 10 - 10 - 10 -
No. William Rein	Example :-
NEW TELEVISION	< html ng-app = "my App")
Alan a	
	< Scoilt SOC = 11 https : 11 ajax · com 11 > < 1 scoilt>
	<pre></pre> <pre>&lt; Scotter Soc =</pre>
	< body >
Sections (	(1) ms contantlex = "my ctan")
327	< b> & E Batering 33 < 1 b>
	<1div>
	< Scoi P+7

	Var app = module (1 myApp) = [] )
-	opp controller C'myctol's function c\$ score ) &
- 14 1 1 m	3 Score . Societing = 11 Hello world 1119
	3 Score . Josephy = 14119 Comments
	3);
	4/scointy 1
edf-5 <sup>a</sup> .	41 body)
per to a fi	
	X 2 W 1
	> in this example, the ng-app disective is
	used to define the root element of the
	AMARIAS IS Abbitation
Singal Sept.	V 8 8 m/8 81 27 14 147 33 1 4 3 5
	ng = model := 1
	THE SHOP IN THE STREET
	The mg-model disective is used to
	bind the value of an HTML control ( mput,
	select, textages) to a vasiable defined in
	an Angular Is controller. The ng-model directive
i ir	is added to an HTML Control Such as an
	input field
	-> The value of the ng-model directive is
	the name of the variable that will be used
	to store the value of the HTML CONTROL
	Examble %-
	< h+m1 mg - gpp > d
1	< head>
	< smit soc = " https : 11 gjax . com / 1: 6.9 angular.
	mim. js "> < 1 scoipt > "
	=== = = = = = = = = = = = = = = = = = =
	< body > Colonia   None Class   None Class
<u> </u>	<div !)<="" "my(+o1="" -="" controller="" ng="" th=""></div>

```
< input type = "text" ng -model = "name">
        < P> Hello 9 22 mame 331 <1P>

4 / div > 4 / di
       < S(0) Pt)
       anguar · module ('myAPP's EJ). (on+soller
       (1 myctor), function ($ scope ) of
      4 scope. name = "wood";
      3);
        <1 Scair+7
      < 1 body >
        <1 html>
       > In this example, the mg-model disrctive
        is used to bind the value of the input
    field to the & scope name vosiable
        and the later than the same
o mg - bind wi- goes to will all when
      The mg-bind directive is used to
        bind the content of con HTML element
        to a variable in Angular is. The ng-
       bind directive is added to an HTML element
    such as a pasagoaph or a div The value
     of the ng-bind directive is the name of the variable that will be used to
        populate the content of the HTMI
       element
     EXAMPLE &-
       < h+m1 mg - app >
       < head>
       < scoipt soc - " https : 11 gigx google com/
       1.6.9 / angular · min. is "> </ scoitt>
```

< body> <div ng - controller = "my Ctr " > r ng-bimd = " greeting "> < /P> 119x> 1201 10 2 10 10 2 10 10 2 angular. module CIMY APP 13 CD). Controller (1 my ctoll) function (\$ sope) of \$ Scape . greeting = " Hello, woold! "'s </script> <1 body> ZID+ml> at I'm warmer well tweetigh the first > In this example, the mg - bind disective is used to bind the content of the passissipph element to the \$ Scope greeting variable. The value of the variable is mitigly set to no Hello, woold I'm the controller. when the page loads, Amounds Is evaluates the expression in the mg-bind directive and papetes the content of the passagraph element with the value of the variable. are all the substitute of the most