Name: Vivek S-Gopta Piv - pisB Roll no - 19 MPL arrignment 2. define Progressive web opp (PWA) and explain its significance in modern web development. Piscus the key characteristics that diffrentiate PWAs from traditional mobile appro-A progressive Web App (PWA) is a type of web application that works like a nobile applied runs is a browser. It can be installed on a device, works offline and provide a fast and smoth user experience. Significance of PWA in Modern Web Development. 1. Grass-Platform Compatibility - Works on both mobile and destrop with a single codébase. 2 Offline support - Con function without the internet using 3. Fait performence - Loads quickly even on slaw networks. 4. No top stare Required - Users can install in directly from the browns. 5. lower development Cost - One PWA con replace reperate Android and Ist apps. Key difference between PWA and Iraditional Mobile Agrs -Traddin App Feature PWA Download from App store. Rived from brown Installation Works offline with Mual regimes intered. Enverted Required. FOR EDUCATIONAL USE **Sundaram**

	Performance Fast with service workers thrusty Faster but
	Performance Fast with service workers thrustly Faster but needs installation.
	relas inicatation.
	Undates Automatic, no opportore Marine undale
	Mydates Automatic, no oppratore Marin gradaly opproval.
	Updates Automatic, no oppratore Marie padaly opproval. needed.
	Revelopment lower (one codebare 1 Eigher Crejerale agric
	Revelopment lower (one codebar 1 tigher (seperate of cost for all) for each platfor)
	PWAs combine the best of web and mobile opps, making then efficient and user friendly.
	then efficient and user friendly.
	708
9.2.	Refire responsive web design and explain de
	innatare.
->	
	Rolinities of Romantina Wale days
	Responsive Web design. Responsive Web design is a technique that makes web pages adjust automatically to different street sizes.
	the distribution of the di
	you pages adjust automatically to different when size
	and device It ereves a good user experience on
	mobile, to tablet and desktops without needing
	referate verion.
	dryportone of Responeive design in PWAs:-
1.	Betty User experience - PWAS work encothly on any deign
2.	Failer load time - Outinioned design in ward
3.	SEO Benefity - Google nontre neumanière vite history
4.	SEO Benefiti - Google nonts responsive rites higher. Cost - Effective - No need to build neutiple, version: FOR EDUCATIONAL USE
Sundaram	FOR EDUCATIONAL USE

	Coryanisas of Web derign Approache:			
	Segrecach blow it works Pres Cong			
	Responser Uses flouble grids and Works on all Con be coplered as neoling queries devices to deings			
	fluid Mus jerent land walls wall well les control inted of forced fricels on different over layout ro elements resize. recen inge. on lage men			
3). Descript the lifecula of Service workers, is regulation, installation and activation phases.				
· ————————————————————————————————————				
	lifeagele of Service werkers:			
6	the bockground and helps a web opp work affine			
	B. Regulation proces			
	- The brown regules the lewing worker ways J.S.			
	ls.			
	of (' service Worker' in navigator) (
	navigator revous Valer réguls (/sw.js)			
	· then (1) => comble · leg (' revice Walter negistred')) · catch (evron => convole · log (' Registration failed: ', ever));			
(Sundaram)	FOR EDUCATIONAL USE			
<u> </u>				

	2. Intallation of them.	1.6
	- De revoire worker downloads recessory	liles
	ad streether in code.	This .
	- If hucesfull, it moves to the adjusting	those.
	es ·	
	self add Evertderlerer (intall; evert => {	
	went wait Ontily (3
	codes gen ('opp-code'). they (code > {	With the second
	return code. add M(['/', 'linduc. html','?	etylicas);
	3) Achirolic Show	
	3) Activation ghan Dy old review worker is replace its	4.0
The control	eg.	throw on.
	relf odd Foert lintens (octuals event => {	9
	event. woit Shill (
	cataly. (leys () · ther (key) => {	
	return Proniss all (very . may Che	, => {
	if (hey! == "ap-coche") &)
	retus codes dellet (vey);	
	<u>y</u>	
	(3));	-
	<u> </u>	and the second second
	1.2.	
Sundaram	FOR EDUCATIONAL USE	

9.4	Explain the use of Indoed DD in the Service Worker
	Explain the use of Indued DD in the Service Worker for data storage.
<i>→</i>	Use of dondered DD is Service Worker for Data Storage. Indexed DD is a browser database that stones large around
	Indoced DD is a browser dalabase that stones large around
	of theotened data like ISON objects 24 helps PUAS
	was office by sovings.
Alli)	1 % 11. 9 1. 10 1. 1
	Why Use Indexed Db is service workers.
	1. Office regnont - stores data when office.
ر المحادث المح المحادث المحادث المحاد	2. Efficient storage - rover structured dato. 3. failes access - Metrieur dato grischley
	2
	* that Service Warhers the Indexed DD?
	Opening the databay.
	let db;
	let request = indiced DB · eyes ('My Database', 1);
	request on euces = furction (event) & db = event tanget report.
	5.
	fetching date is service water.
	fairly way is have ones.
	let transcripe = db: transaction ('Mars' 'nodan!')
	let trajaction = db. tranaction ('Ujerg', 'redonty'); let eta = tranaction : Glyecolten ('Ujerg', 'redonty');
Sundaram	FOR EDUCATIONAL USE

	W getlier = stores. get();	March 2	15
	get (her : m success = function () &		
	get (her : on rueceur = function () { -canoli les (get Oser - regult); 3;		
		7750	
		St. March	
wings.			
		Sept.	
			•
		·	
Sundaram	FOR EDUCATIONAL USE	l	