1) what In The purpose of CSS Media quives: tool used to apply different style responsive for idifferent alevices. They Enable responsive web closign by adjusting the layout & slyling bared on the characterstie of the user device. 2. monte a Basic Meder query In CSS. -> @ media Lersen and (max-width: 600pse) 5 "Style for Leveen with a Maximum with of 3. Explain The difference between Marc-width Erin-width In medier queries. \* Min width Sets a minimum width for The Specified tolue Style to copply. This with will be afflied when wew ports with he Equal to 89 lærger Than The Specified Value.

\* Marc - widtles; Sets The Maximum widtles for The Specified Style to apply. Max widtles will be applied when The widtle of The viewpos In Equal to or lesser Than The Specified 4. peoplese of the viewpood Meta tag In responsent web Se oderign. -> View port Metertag In HTML Is used to control How a webfage In idesplayed on idefferent idences & Lerken sizes. It Enable identifiers to Set The Initial view poert width, Scale and other proporties. 5 How can you apply styles for landscape & potrad ocientations using Media questies? > We can offly Style for landscape & potrail orientations by using media queries and orientation \* for landscape.

@ media (orientation: landscape) { \* for potrait: @medica (orientation: potrait) { #Style ?;

6. Explain Flue Concept of a Mobile-fiert afferoach In responsive rolesign. St Tomobuer idesigning a web-page for Mobile colonies fierst and Then progressely Entrancing The colesign for larger screens The approach Ensures better user Experience. 7) what are The Common break points In responsing design. -> common boost points In Jasfonius design are used to adopt the layout and styles of a westpage to different desem sizes different boreak points; Mobile (poterait): - Delow 480 poc. 2] Mobile (landscapes): around 480 px to 767 px. 3] tablets (P+L): Leturen 768px to 1023px. 4] Small colors tops and lapstops: Between 1024px & 5] Medium to læge idest top: About 1280 px.

2) what his the propose of mede hem wint In media queries Dem Ete wint In delative to the Foot Element's fant Sise. It helps consistent E Scalable design across different Screen 9. How Can you combine Multiple modia queries In CSS? -> WE can combine Muliple media Juvius
by using logical operators and " or", not, @ media Lercen and (min-width: 768 ps) and (most-witth: 1024 pa) { # 5+yle } 10] What Is The Significance of 'all' Keymord D. In media queries. J+ 1s used to target all media
type for Ecomple @ media all (...)
applies Style to all identices.

How colo you use media queries to apply Styles only for point stylesheets? > To apply Styles Specifically for found Styleshed In GSS. We can use media query with point keyword. (a) media paint { "feind Style 3. The difference between ? Screen & friend In medica queries? Screen media type In a default media type and Is used to Style The actual website for different Screen Fizes @ media Lereen and Comen width: 600 px ) > point media type Is used when the weer want to point Something the websites then their particular Styling websites applied media point {

13) How can you hide an Element on a Spenfie Screen viring media queries? > We can rure media query to hide an Elements at a Specific Screen by using display property and then is det It to none.

within The media query so when

The width of the harburlar viewport In

changed It will be hidden. @ media Leren (Max-width: 1024 Pz) { de body { idisplay, none; 14] Explain The role of orientation froperly The object Specific relative orientation Such as landscape or poterant. This allows user In media - queriez. to apply Styling based on whether The received or horizontal orientations. Potrait: vertical orientation landscape; horizontal occumulation

15. How ide you tanget Specific clauces using media queries. -> We can Style for Specific devices by toergething The Positionals idencens width, Egi a media (mose-width: 768px); This will be target the idenie with The width of 768px. 16. what Is neg The purpose of The 'NOT' Keyword In media queries? -> The 'not' keyword In mediciqueries In used to negled a Specific Condition. It allows user to apply otyles when Certain condition In not met. Eg: @ medea (max-width: 600 px) { # Style for Smaller Screens # @ media not (mase-width: 600pse) { # Style for Screen langer than 600 px. How Can you media queries to adjust fort wises for wliferent Screen wises? > media queries 7is CSS allows user to apply Style based on Cerlain Ar conditions: Such as characteristic of The colenier or The Screen Size we can use media queries to adjust fant Size for different Screen wijes. Egi body { font-wise: 16 px; I # default font size @media Screen and [max-width: 600px){ fond Size: 14Px; 3 # Flis WIII be applied when the Screen Size coloops below 600 psc:

18 book-dizing peroperty In CSS Is ared to contral How The total width & height are Calculated basically Hidelermin whether to The specified height & with Jorofeerly Should Inchede bonder, Margin and factoling of Exchale them. 19] i content box: His a default value. A calculate the with and height of the Element by Excluding. Padding, margin, and border. bosc-dizeng: boso Content bose; 11] border - box: >H calculate The height & width of an Element by Including border and padding bent Excluding margin. boarder-box Can particularly usefull for responsite iderign & layout.

20] How closes The bosc-Sizing property offects The coe calculation of an Element's Wirdth & height In CSS? -> Bosc-dizing determines whether the Should Include padding, border and Maligen or not. So That It will look appealing as her The properties we can use content box & border box to choose How It has to be Cabulated 21] Why might you choose box-Sizing-border-box as the idefaunt bose-model for your project? -> Choosing box border box as a default box-model has Several advantages Mainly 1. Simplified layout; The openfied with height Include Content book, padding, boroles. This maker Earies to create l'ayout, without idoing

Kesponsine idesign: border-bose 74 The first Choice for the people who are working on responsive colesion. It Simplifies The process. user can Easily Set percentage based width with warrying about padding, border to The overall idemensions \* If In a edefault behavious of bootsbrap fereneword. 22] idifférent setueen normalising & resetting > Normalizing: Normalizing Stylesheet aims to make default istyles More Consistent Eleminating altogether Hickory Fries to Ensure all The Styles but viallies fries to Ensure Flicit They are consistent. > Resetting: Resetting a styleshed In iderigned to cremone or reset all the idefault styles ferouided by the ibrowner. The good Into Create a clean state

Eg: Normalizing: html { line-heighd: 1.53 article, aside, fooles { display: block: Eg: Presetting; Intont, body t Margen: 0; Padding: 0; Boerden: 0; 23] what I is a CSS Combinators, and Howis H used In a Delector -> In CSS, a combinator is a character That Specifies the relationship between the Selector In a compound Selector Hidetermine How The Elements natching one Selector Should be Related to Element Matching another Selector;

Delects all Float are idescendent of 
Element. Eg: ul di { #Style: Selects all Elements that are Immediate Children of a <div> Element 24. Differentiate between idescent and children combinatory In C35 Selectors. -> Descendant combinatos (whitespace) His combinator Lelects all The Elements That wa idescendants of a Specific Element. regardlers of How ideepty nested they are. -> child combinator: The child combinator ('>') Selects all That are retired child of a Specified Element. It only Considery Imediate Children. Not Elements nested furthers down The hierarchy.

25] Eschlain The purpose of adjacent Sibiling Combinatos (+) 1 m CSS. provide a use care > The adjacent willing combination ('+') In weeks Select and whyle an Element That In Immedialy preceded by a Specific Element. A færgets an Element That Is Elbiling and comes colineally after another Specified Glement Sharing The Same Eg: 2h2> Heading 4h2> 2P) Flies Is The Content 2/P) Now let's Day we want to apply Specific Style to The paragraph That idirectly follows hatp! font Style: Italic; In Flus Scenario. 'hatp' will Select all The 2p> Element That idvicitly follows on Lh2>.

-11.

28] provide an Example of using classendant combinators to Style nested Elements.

> HTML

2 div >

2P> Flui In a parageraph Jonside dir 2/P>

2 Span > This Is a Span I 2/5 pan >

2 div)

2 Span > Flis In a Span 2 4/Span

21div)

Lldiv>

CSS.

Les This Wille Con dit style div Span { Golog : green; font-weight: bold;

Flix Will Style all The Span Elements Including The noted Elements as well.

- 32] Explain The correct of CSS poseudo-Selectors.
- DCSS freudo. Selectors are Keywoods That are aclded to Sectors to style Elements Garedon Diers State, Position or other criteria.

Poseudo-Selectors beigen with a colon (::').

and are used to target specific Elements
without needing to add additional classes.
or attribute to The HTML Mark up.

commonly used poseudo-Selectors:

- ]: hours > It tanget the Element when uses hours over It with the Mouse,
- a: hower {
  background-Color: # PFF;

2]: active -> targets an Element when H Is being activated (C.g:- clicked) by the was.

button: active {
background-Colog: #007;

3.

3. : focus -> targets an Element focus
That currently has Keyword focus Input : focus { bordes: 2 pr Solid genen; 34. Différent between Produdo-classes and Poseudo-Elements In CSS. Give Example of Each. > Poseudo-classes: used for Styling Elements based on Their State of relationship with The user (Eg: ': houser', ': active', ': focus') Poseudo - Elements: - used for alyling Specific hoert Jan Element rollhors than a Specific State on Irelationship. They are idenated by a double colon (:::) Eg: html. 2h1> Heading 21h1> 2P> Flis Is a paragraph 2/P) h1:: before f

content: "\*\* Flis will add two Starn before heading. 35. How can you use The :noth-child Pedendo-clars to Select Specific Elements In a dist ? peroude Example. The ": nth-child" poseudo-class In CSS
allows you to Select Elements boared on Hers
position with the parent Containers. It particularly usefull for styling Every not child Element. Eg: html 2 di > Jem 1 LL:> Hem 2 Ldi> Jem3 L Idi> Lli> Jtem 4 / Ili> 2/2/ ul li: rells-child (odd) { background-color: # fofofo; ul li: nth-child (Quen) { background-color: # e0e0e6;

Java desift: I what are The primitive clate types In javaderift \* String -> characters defined within Single quote or double quote. "hello, word". \* Number -> represents numeric value \* Boolean: represents a logical Entity and can have two values. 'tome' or false' \* undefined: represents a variable that has been declared but not been assigned a value. \* Null: Irefererents a Intentional absence of any object value. let oc = mull;

2) Eschlain The volifference detuces mill and undefined In jour deright. > undefined In a idatatype In januaccipt where The Variable her been electored but not get absence defined. It he like a unintentional absence of any object value. null->, referesents The Intentional absence of any object value. let y = null; 3. How do you cheek The datalyte Ja variable -> we can check a datalyte of any variable
In javascrift using who typeof operator, Eg: les 70 = 423 let y = "hello"; let 2 = tome; let &w;

Console log (+ype of x); -> number Console log (+ype of y); -> String Console log (+ype of Z); -> boolean Console log (+ype of Z); -> undefined.

4] Esoplain The consept of truly and falsy xanes In java Swift. perovide Ecomple.

In Januascrifit, Values are Tonherently Fruthy
of false In boolean Contesct.

The value Is Considered to be truthy
when I It too coersees to 'teme'
when Evaluated In a boolean contesct.

It (terre) {
Console log ("Flir Statement");
# This will be Executed Since The Condition Is
Lewe.

\* The booken 'teme'.

falsy values. A value 1,5 considered falsy 1/ H Colones to 'false' when Enaturated Ina boolean Conteses. \* The boolean false! The number '0' The Special Value NAN. \* 'null' \* 'undefined, Eg: If (false) ? console log ("This will Not be Escecuted"); Console. log (" Fluis Will isot be Executed"); 5] what In The volifference between == and === = operators In javescrift, and how do They Irelate to Later types?

6. How do you convert a Steing to a number In janderifil? -> In Janascript, you can consider a storing to a number using various Methods. 1. parse Int or parse Flad: let x = "456"; let y = parse Ind (x:10); console log (y) -> 456. let : 56 = 13.14" let y = parse Float ('304'); console log(y) -> 3.14 Numleer. 2. Number Constructor. let x = "123" let y = Number (20). Console log (4) -> 123

(000 gue Inchances)

= = " 9 refers to Loose Equality The '== ' operation performs type Coercion It The opperands are of colfberent types before making The Comparison === : refers to Strict Equality The '=== 'operators on The other hand edoes not perform type Coloraion. It checks both The values and their type and The comparision Is only true when both are Some Eg: console. log ('5' == 5) - terre console. log (false = 0) - terre console. log (null = undefined) - terre Eg: console. log ('5'===5) - false diff type Console log ( false = == 0) - false diff type

Echlain The difference between The ++ 2 & X++ Incremental operators In auascirpt, In Jana Script bot ++ × & ×++ are Incommental operators used to Increase The value by I However . The coliffee In There behavior Oregarding when the Increment actually occurs. Porefis Incorement operators ++ x: > This will fierst Increments The value of 'x' and Then wholate The value. et x=5; let y= ++x; Console log (SL); 6 (SC Is Incremented before the assignmen) console log (y); 6 ( y In assigned The Increment Value of se) Postfise Incomment operator X++; > Jetusms The current value of 'x' and

Then Increments The Value of 'x',

It In also knowns as Port-Incrementer operators

Console. log (a): 11 (a In Increment

et b = a++' (onrole. log (b). 10. efter The arisin

(b is assign a Value of the state of the original orig (b is assign a volue of a before