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Guvi Zen Class HTML Task2

1.Design the below equation using HTML & CSS.

$$\frac{\partial^2 u}{\partial t^2} = c^2 \frac{\partial^2 u}{\partial x^2}$$

```
A. <!DOCTYPE html>
<html>
<head>
<script src='https://cdnjs.cloudflare.com/ajax/libs/mathjax/2.7.4/MathJax.js?config=default'>
</script>
<style>
</style>
</head>
<body>
<div>
$$ {\&part;^2u\over&part;t^2} = c^2 {\&part;^2u\over&part;x^2} $$
</div>
</body>
</html>
```

2. Write a css rule of rounded rectangle, dashed border, grayscale for all image tags in your webpage.

```
A. <!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
<style>
img{
border:2px dashed;
border-radius:10px;
filter:grayscale(50%);
}
</style>
</head>
<body>
```

```
  
</body>  
</html>
```

3. Write a media rule to change only the font size of web page when it's resized.

```
A. <!DOCTYPE html>  
<html>  
<head>  
<style>  
@media screen and (max-width: 400px) {  
  body {  
    font-size: 10px;  
  }  
}  
</style>  
</head>  
<body>  
<p> Guvi zen class full stack developer</p>  
</body>  
</html>
```

4. Use HTML & CSS to display different types of cursors.

```
A. <!DOCTYPE html>  
<html>  
<head>  
<style>  
.alias {cursor: alias;}  
.all-scroll {cursor: all-scroll;}  
.auto {cursor: auto;}  
.cell {cursor: cell;}  
.context-menu {cursor: context-menu;}  
.col-resize {cursor: col-resize;}  
.copy {cursor: copy;}  
.crosshair {cursor: crosshair;}  
.default {cursor: default;}  
.e-resize {cursor: e-resize;}  
.ew-resize {cursor: ew-resize;}  
.grab {cursor: -webkit-grab; cursor: grab;}  
.grabbing {cursor: -webkit-grabbing; cursor: grabbing;}  
.help {cursor: help;}  
.move {cursor: move;}  
.n-resize {cursor: n-resize;}
```

```

.ne-resize {cursor: ne-resize;}
.nesw-resize {cursor: nesw-resize;}
.ns-resize {cursor: ns-resize;}
.nw-resize {cursor: nw-resize;}
.nwse-resize {cursor: nwse-resize;}
.no-drop {cursor: no-drop;}
.none {cursor: none;}
.not-allowed {cursor: not-allowed;}
.pointer {cursor: pointer;}
.progress {cursor: progress;}
.row-resize {cursor: row-resize;}
.s-resize {cursor: s-resize;}
.se-resize {cursor: se-resize;}
.sw-resize {cursor: sw-resize;}
.text {cursor: text;}
.url {cursor: url(myBall.cur),auto;}
.w-resize {cursor: w-resize;}
.wait {cursor: wait;}
.zoom-in {cursor: zoom-in;}
.zoom-out {cursor: zoom-out;}
</style>

```

</head>

<body>

<p>auto,text are similar
 move,all-cross similar
context-menu,default are similar
no-drop,not-allowed are similar
 all resize cursors are based on pre-fix directions</p>

<p class="alias">alias</p>

<p class="all-scroll">all-scroll</p>

<p class="auto">auto</p>

<p class="cell">cell</p>

<p class="context-menu">context-menu</p>

<p class="col-resize">col-resize</p>

<p class="copy">copy</p>

<p class="crosshair">crosshair</p>

<p class="default">default</p>

<p class="e-resize">e-resize</p>

<p class="ew-resize">ew-resize</p>

<p class="grab">grab</p>

<p class="grabbing">grabbing</p>

<p class="help">help</p>

<p class="move">move</p>

<p class="n-resize">n-resize</p>

<p class="ne-resize">ne-resize</p>

<p class="nesw-resize">nesw-resize</p>

```

<p class="ns-resize">ns-resize</p>
<p class="nw-resize">nw-resize</p>
<p class="nwse-resize">nwse-resize</p>
<p class="no-drop">no-drop</p>
<p class="none">none</p>
<p class="not-allowed">not-allowed</p>
<p class="pointer">pointer</p>
<p class="progress">progress</p>
<p class="row-resize">row-resize</p>
<p class="s-resize">s-resize</p>
<p class="se-resize">se-resize</p>
<p class="sw-resize">sw-resize</p>
<p class="text">text</p>
<p class="url">url</p>
<p class="w-resize">w-resize</p>
<p class="wait">wait</p>
<p class="zoom-in">zoom-in</p>
<p class="zoom-out">zoom-out</p>
</body>
</html>

```

5. Write a CSS class that meets the Box Model requirement for all the div tags in your page.

- Use certain properties padding, margin, border.

A. <!DOCTYPE html>

```
<html>
```

```
<head>
```

```
<title>Page Title</title>
```

```
<style>
```

```
  div{
```

```
    padding:20px;
```

```
    margin: 20px;
```

```
    border: 2px solid;
```

```
  }
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div>At GUVI we all come to work every day because we want to change the life of our learners by
skilling them. We are obsessively passionate about it and our mission is to help people achieve it. We
focus on pedagogical tools which is least focused by skilling industry. We are excited to simplify skilling
for every learner through our platform, mentors and community</div>
```

```
</body>
```

```
</html>
```

6. Write a CSS class to change size of font, color font family when mouse moves over of span tag in your webpage.

```
A. <!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
<style>
  span:hover{
    color: chartreuse;
    font-size: 15px;
    font-family: Georgia, 'Times New Roman', Times, serif;
  }
</style>
</head>
<body>
<span>At GUVI we all come to work every day because we want to change the life of our learners by
skilling them. We are obsessively passionate about it and our mission is to help people achieve it. We
focus on pedagogical tools which is least focused by skilling industry. We are excited to simplify skilling
for every learner through our platform, mentors and community</span>
</body>
</html>
```

7. Write a CSS 2D rule with translate() property to move an element.

```
A. <!DOCTYPE html>
<html>
<head>
<style>
div.a {
  transform: translate(20px,20px);
}
</style>
</head>
<body>
<div class="a">Hello World!</div>
</body>
</html>
```

8. Define a CSS class to show tooltip when mouse moved over the elements.

```
A. <!DOCTYPE html>
<html>
<style>
sub{
  background-color: gray;
  border-radius:20px;
```

```

        visibility: hidden;
        color: white;
    }
    span:hover sub {
        visibility: visible;
    }
</style>
<body>
<span>First Name<input>
    <sub>You have to give your name here</sub>
</span>
</body>
</html>

```

9. For the below shown image apply clip property with values of right & bottom and display the output.



A. <!DOCTYPE html>

```

<html>
<head>
<style>
img {
    clip: rect(0px,200px,100px,0px);
}
</style>
</head>
<body>

</body>
</html>

```

10. Design the below image using HTML & CSS.

Drop caps can be used to add emphasis to blocks of text but know they can affect readability.

```
A. <!DOCTYPE html>
<html>
<head>
<style>
p::first-letter {
  font-size: 70px;
  float:left;
  line-height:50px;
}
#bgimg{
  height: 200px;
  width: 300px;
  background-image: repeating-linear-gradient(to right,skyblue ,white 0.01%);
}
p{
  transform:translate(45px,60px);
}
</style>
</head>
<body>
<div id="bgimg">
<p>Drops caps can be used to <br>add emphasis to blocks <br>of text but know they<br> can affect
readability. </p>
</div>
</body>
</html>
```

11. Use the required property to reshape a div, as example shown below.



```
A. <!DOCTYPE html>
<html>
<head>
<style>
div{
    background-color:skyblue;
    height:200px;
    width:250px;
    border-top-left-radius: 30px;
    border-bottom-right-radius: 30px;
}
</style>
</head>
<body>
<div>
</div>
</body>
</html>
```

12. Use CSS to set a background image should be centered and should not repeat.

```
A. <!DOCTYPE html>
<html>
<head>
<style>
body{
    background-image:
url(https://moviegalleri.net/wp-content/gallery/master-telugu-posters/Vijay-Master-Telugu-Movie-Posters-1fba00a.jpg);
    background-position: top;
    background-repeat: no-repeat;
    background-size: cover;
```



```

    height:100%;
}
</style>
</head>
<body>
<div>
</div>
</body>
</html>

```

13. Write CSS rules to set the direction of the flexible items inside the <div></div> element in reverse order.

A. <!DOCTYPE html>

```

<html>
<head>
<style>
#parent {
    display: flex;
    flex-direction:column-reverse;
}
</style>
</head>
<body>
<div id="parent">
    <div>A</div><div>B</div><div>C</div><div>D</div><div>E</div>
    <div>F</div><div>G</div><div>H</div><div>I</div><div>J</div>
</div>
</body>
</html>

```

14. Give the <div> element an image border using the image "border.png". Slice the image at 30px and stretch it.

A. <!DOCTYPE html>

```

<html>
<head>
<style>
div{
    border:10px solid;
    border-image: url(border.png);
    border-image-slice: 30px;
    border-image-width: 15px;
}
</style>
</head>

```

```
<body>
<div>Guvi Geeks</div>
</body>
</html>
```

15. Give the <div> element a rounded corner (25px radius) on the bottom left side.

```
A. <!DOCTYPE html>
<html>
<head>
<style>
div {
  border: 2px solid black;
  border-bottom-left-radius:25px;
  padding-left:10px;
}
</style>
</head>
<body>
  <div> Guvi Geek</div>
</body>
</html>
```

16. Remove the transparency/opacity of the element when the user hovers over it with the mouse pointer.

```
A. <!DOCTYPE html>
<html>
<style>
img{
  opacity:0.5;
}
img:hover {
  opacity:1;
}
</style>
<body>

</body>
</html>
```

17. Position the <div> element all the way to the right using absolute positioning.

```
A. <!DOCTYPE html>
```

```
<html>
<head>
<style>
div{
  position: absolute;
  right: 0px;
}
</style>
</head>
<body>
<div>Guvi Geek</div>
</body>
</html>
```

18.Add a scrollbar to the <div> element.

A. <!DOCTYPE html>

```
<html>
<head>
<style>
div{
  height:100px;
  width:100px;
  overflow:scroll;
}
</style>
</head>
<body>
<div>ABCDEFGHJKLMNOPQRSTUVWXYZA</div>
</body>
</html>
```

19.Set a linear gradient background for the <div> element, going from the top to bottom, transitioning from "white" to "red" to "blue" to "green".

A. <!DOCTYPE html>

```
<html>
<head>
<style>
div{
  height: 150px;
  background-image: linear-gradient(white,red,blue,green);
}
</style>
</head>
<body>
```

```
<div></div>
</body>
</html>
```

20. With the transform property, rotate the <div> element 45 degrees.

```
A. <!DOCTYPE html>
<html>
<head>
<style>
div{
padding-top:20px;
height:100px;
width:100px;
transform: rotate(45deg);
}
</style>
</head>
<body>
<div>Guvi Geek</div>
</body>
</html>
```