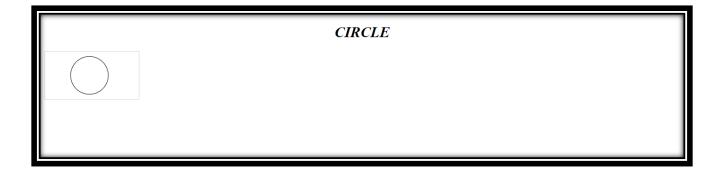
OSTL-6

 Write an HTML 5 program to show the usage of all the tags, attributes and elements used in HTML 5.

```
html code:
```

```
<!DOCTYPE html>
<html>
  <head>
    <title>Example problem</title>
  </head>
  <body>
    <h1 style="text-align: center;"><b><i>CIRCLE</i></b></h1>
    <canvas id="myCanvas" width="200" height="100" style="border:1px solid #d3d3d3;">
    Your browser does not support the HTML5 canvas tag.</canvas>
    <script>
      var c = document.getElementById("myCanvas");
      var ctx = c.getContext("2d");
      ctx.beginPath();
      ctx.arc(95,50,40,0,2*Math.PI);
      ctx.stroke();
    </script>
  </body>
</html>
```



- Specifying headings of the content and inserting paragraphs of text content :
 - Headings h1 to h6
 - · Paragraphs and line breaks
 - Text formatting
 - · Preformatted text
 - · Marking deleted and inserted text
 - Setting text direction of an element

```
· Usage of div and span tags
html code:
<!DOCTYPE html>
<html>
<head>
<title>1st Question</title>
</head>
<body>
     <h1>First heading</h1>
     <h2>Second heading</h2>
     <h3>Third heading</h3>
     <h4>Fourth heading</h4>
     <h5>Fifth heading</h5>
     <h6>Sixth heading</h6><br>
     I created a new paragraph using the p tag.<br/>
And broke it into several
lines using the br tag.
     <b>b tag makes the text appear bold</b>
     <i>i>i tag creates the italics text</i>
     Using sup tag we can create superscript text just like this
Hello<sup>World</sup>
     Using sub tag we can create subscript text just like this
Hey<sub>Everyone</sub><br
     <
           This is
           how
           wE
           cReAtE
     preformatted text. The text will be displayed exactly as written in the HTML
source code
     <h4>del and ins tags</h4>
     I love <del>strawberry</del> <ins>chocolate</ins> milkshake.
```

```
<h4>Setting text direction of an element</h4>
Date : 20-12-2021
Place : Manipal
Greetigs everybody
<div>This is a div <span>(This is a span element(inline element))</span>
element(block element)</div>
</body>
</html>
```

Ouput:

First heading

Second heading

Third heading

Fourth heading

Fifth heading

Sixth heading

I created a new paragraph using the p tag. And broke it into several lines using the br tag.

b tag makes the text appear bold

i tag creates the italics text

Using sup tag we can create superscript text just like this Hello World

Using sub tag we can create subscript text just like this $Hey_{Everyone}$

```
This is
how
wE
cReAtE
preformatted text.The text will be displayed exactly as written in the HTML source code
```

```
b tag makes the text appear bold

i tag creates the italics text

Using sup tag we can create superscript text just like this HelloWorld

Using sub tag we can create subscript text just like this HeyEveryone

This is how we create subscript text just like this HeyEveryone

This is how we create subscript text just like this HeyEveryone

This is how we create subscript text just like this HeyEveryone

This is creates preformatted text. The text will be displayed exactly as written in the HTML source code

del and ins tags

I love strawberry chocolate milkshake.

Setting text direction of an element

Date: 20-12-2021

Place: Manipal

Greetigs everybody

This is a div (This is a span element(inline element)) element(block element)
```

Creating links to other HTML documents or Web

resources:

- Create hyperlinks
- Using image as a Link
- Open link in a new browser window
- Navigate inside page

```
<a href="#1">What is pollution</a><br>
<a href="#2">Effects of pollution</a><br>
<a href="#3">Types of pollution</a><br>
<a href="#4">How to reduce pollution</a><br>
```

Pollution is a term which even kids are aware of these days. It has become so common that almost everyone acknowledges the fact that pollution is rising continuously. The term 'pollution' means the manifestation of any unsolicited foreign substance in something. When we talk about pollution on earth, we refer to the contamination that is happening of the natural resources by various pollutants. All this is mainly caused by human activities which harm the environment in ways more than one. Therefore, an urgent need has arisen to tackle this issue straightaway. That is to say, pollution is damaging our earth severely and we need to realize its effects and prevent this damage. In this essay on pollution, we will see what are the effects of pollution and how to reduce it.

Pollution affects the quality of life more than one can imagine. It works in mysterious ways, sometimes which cannot be seen by the naked eye. However, it is very much present in the environment. For instance, you might not be able to see the natural gases present in the air, but they are still there. Similarly, the pollutants which are messing up the air and increasing the levels of carbon dioxide is very dangerous for humans. Increased level of carbon dioxide will lead to global warming. Further, the water is polluted in the name of industrial development, religious practices and more will cause a shortage of drinking water. Without water, human life is not possible. Moreover, the way waste is dumped on the land eventually ends up in the soil and turns toxic. If land pollution keeps on happening at this rate, we won't have fertile soil to grow our crops on. Therefore, serious measures must be taken to reduce pollution to the core.

After learning the harmful effects of pollution, one must get on the task of preventing or reducing pollution as soon as possible. To reduce air pollution, people should take public transport or carpool to reduce vehicular smoke. While it may be hard, avoiding firecrackers at festivals and celebrations can also cut down on air and noise pollution. Above all, we must adopt the habit of recycling. All the used plastic ends up in the oceans and land, which pollutes them.

</body>

Output:

To learn HTML

Click here

img element as link



Link for a new tab

Click here to open new window

Navigate inside page

What is pollution Effects of pollution Types of pollution How to reduce pollution

Pollution is a term which even kids are aware of these days. It has become so common that almost everyone acknowledges the fact that pollution is rising continuously. The term 'pollution' means the manifestation of any unsolicited foreign substance in something. When we talk about pollution on earth, we refer to the contamination that is happening of the natural resources by various pollutants. All this is mainly caused by human activities which harm the environment in ways more than one. Therefore, an urgent need has arisen to tackle this issue straightaway. That is to say, pollution is damaging our earth severely and we need to realize its effects and prevent this damage. In this essay on pollution, we will see what are the effects of pollution and how to reduce it.

Pollution affects the quality of life more than one can imagine. It works in mysterious ways, sometimes which cannot be seen by the naked eye. However, it is very much present in the environment. For instance, you might not be able to see the natural gases present in the air, but they are still there. Similarly, the pollutants which are messing up the air and increasing the levels of carbon dioxide is very dangerous for humans. Increased level of carbon dioxide will lead to global warming. Further, the water is polluted in the name of industrial development, religious practices and more will cause a shortage of drinking water. Without water, human life is not possible. Moreover, the way waste is dumped on the land eventually ends up in the soil and turns toxic. If land pollution keeps on happening at this rate, we won't have fertile soil to grow our crops on. Therefore, serious measures must be taken to reduce pollution to the core.

Types of Pollution : Air Pollution, Water Pollution, Soil Pollution.

After learning the harmful effects of pollution, one must get on the task of preventing or reducing pollution as soon as possible. To reduce air pollution, people should take public transport or carpool to reduce vehicular smoke. While it may be hard, avoiding firecrackers at festivals and celebrations can also cut down on air and noise pollution. Above all, we must adopt the habit of recycling. All the used plastic ends up in the oceans and land, which pollutes them.

- Inserting images into the HTML document :
 - · Setting width and height of the images
 - · Aligning images
 - · Make a hyperlink of an image
 - Creating an image map (An image with clickable regions)

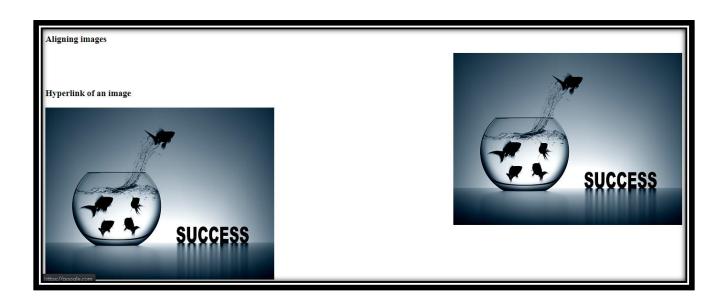
```
html code:
<!DOCTYPE html>
<html>
<head>
<title>3rd question</title>
</head>
<body>
  <h3>Inserting images</h3>
<img src="index.jpg"/>
<br>
<h3>Setting height and width</h3>
<img src="index.jpg" width="100" height="100"/>
<br>
<h3>Aligning images</h3>
<img src="index.jpg" align="right"/><br><br><br>
<h3>Hyperlink of an image</h3>
<a href="https://google.com"><img src="index.jpg"></a>
<br>>
<img src="index.jpg" usemap="#workmap">
<map name="workmap">
<area shape="rect" coords="0,0,50,50" alt="sky" href="https://google.com">
<area shape="circle" coords="100,100, 50" alt="elephant"</pre>
href="https://www.w3schools.com">
</map>
</body>
</html>
```

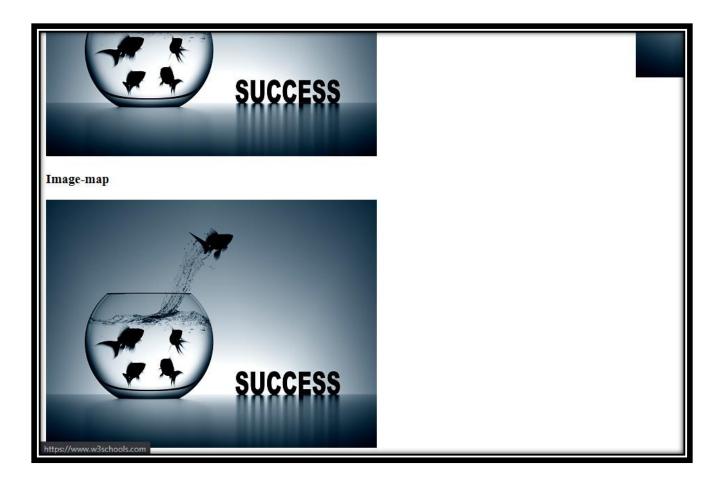
Inserting images



Setting height and width







- 12. Creating a simple table :
 - Setting the dimension of a table
 - Specify the table caption
 - Tables with borders
 - Using cell padding, cell spacing, row span, column span attributes

- <!DOCTYPE html>
- <html>
- <head>
- <title>4th question</title>
- </head>
- <body>
- <caption>first table</caption>
- first

```
second
third
1
2
3
4
5
6
</tr
<br>><br>>
<caption><b>second table</b></caption>
first
second
third
 A 
 B 
 C 
 D 
 E 
F
<br>><br>>
<caption><b>third table</b></caption>
first
second
third
cat
rat
mat
bat
sat
hat
```

```
<br>
<caption><b>fourth table</b></caption>
first
second
third
content 1
content 2
content 3
content 4
content 5
Colspan
</body>
```

</html>

first ta first secon 1 2 4 5 secon	d third 3	
A B D E	cond thire	
first	second	third
cat	rat	mat
bat	sat	hat
fo	urth table	
first	second	third
content 1	content 2⊫	ontent 3 ontent 5

13. Making your own lists:

· Unordered, Ordered and definition list

html code:

```
<!DOCTYPE html>
<html>
 <head>
   <title>5th question</title>
 </head>
 <body>
   <h3>My Tastes in beverages :</h3>
   <h4>Ordered list :</h4>
   Milkshake
     Lemonade
     Milk
   <h4>Unordered list :</h4>
   Milkshake
     Lemonade
     Milk
   <h4>Definition list :</h4>
   <dl>
     <dt>Milkshake :</dt>
     <dd>This is my all time favourite.</dd>
     <dt>Lemonade :</dt>
     <dd>I like this more in summer.</dd>
     < dt > Milk : < / dt >
     <dd>I drink this everyday.</dd>
     </dl>
 </body>
</html>
```

Output:

My Tastes in beverages:

Ordered list:

- 1. Milkshake
- 2. Lemonade
- Milk

Unordered list:

- Milkshake
- Lemonade
- Milk

Definition list:

Milkshake:

This is my all time favourite.

Lemonade:

I like this more in summer.

Milk:

I drink this everyday.

- 14. Creating a simple form :Using Text input field

 - Creating password input field
 Checkboxes and radio buttons
 Drop down list

 - Select box with preselected value
 Text area

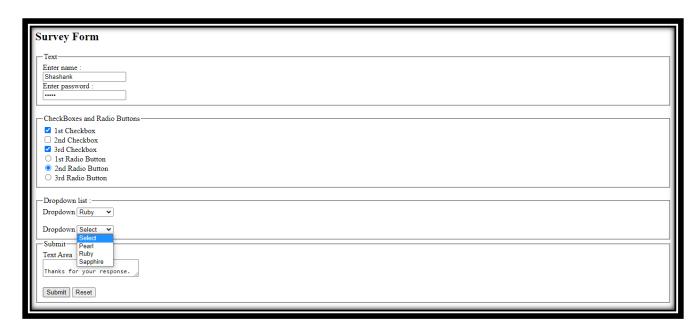
 - · Creating buttons (Show the usage of submit and reset buttons)
 - · Grouping similar form fields

html code:

```
<!DOCTYPE html>
<html>
<head>
<title>6th question</title>
</head>
<body>
<h2>Survey Form</h2>
<form>
```

```
<fieldset><legend>Text</legend>
Enter name :<br>
<input type="text"><br>
Enter password :<br>
<input type="password">
</fieldset>
<br>
<fieldset><legend>CheckBoxes and Radio Buttons</legend>
<input type="checkbox" id="firstcheckbox" name="firstcheckbox" value="one">
<label for="firstcheckbox"> 1st Checkbox</label><br>
<input type="checkbox" id="secondcheckbox" name="secondcheckbox"</pre>
value="two">
<label for="secondcheckbox"> 2nd Checkbox</label><br>
<input type="checkbox" id="thirdcheckbox" name="thirdcheckbox" value="three">
<label for="thirdcheckbox"> 3rd Checkbox</label>
<hr>>
<input type="radio" id="male" name="gender" value="male">
<label for="male">1st Radio Button</label><br>
<input type="radio" id="female" name="gender" value="female">
<label for="female">2nd Radio Button</label><br>
<input type="radio" id="other" name="gender" value="other">
<label for="other">3rd Radio Button</label>
</fieldset>
<br>
<fieldset>
<legend>Dropdown list :</legend>
<label for="stones">Dropdown</label>
<select name="stones" id="stones">
<option value="select">Select</option>
<option value="pearl">Pearl</option>
<option value="ruby">Ruby</option>
<option value="sapphire">Sapphire</option>
</select> <br><br>
<label for="stones">Dropdown</label>
<select name="stones" id="stones">
<option value="select">Select</option>
<option value="pearl">Pearl</option>
<option value="ruby">Ruby</option>
<option value="sapphire">Sapphire</option>
</select>
</fieldset>
<fieldset><legend>Submit</legend>
<label for="textarea">Text Area</label><br>
<textarea name="textarea"></textarea><br><br>
<input type="submit" name="submit" value="Submit">
<input type="reset" name="reset" value="Reset"></fieldset>
</form>
</body>
</html>
```

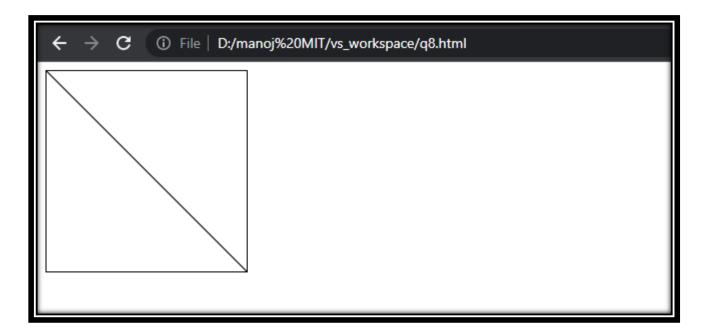
Output:



16. HTML5 Canvas

- · Embedding canvas into an HTML document
- · Drawing a line, circle, rectangle, arc onto the canvas
- · Filling the colour into shapes on canvas
- Filling linear and radial gradient inside canvas shapes
- Setting the stroke colour and width on canvas.

```
<!DOCTYPE html>
<html>
<head>
<title>8th question</title>
</head>
<body>
<canvas id ="myCanvas" width ="200" height= "200" style="border:1px solid</pre>
#000;"></canvas>
<script>
var c = document.getElementById("myCanvas");
var ctx = c.getContext("2d");
ctx.moveTo(0, 0);
ctx.lineTo(200, 200);
ctx.stroke();
</script>
</body>
</html>
```



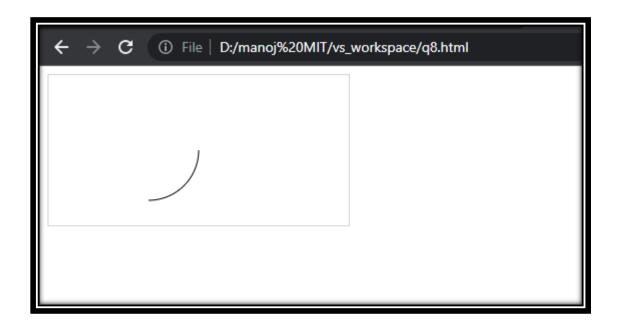
```
<!DOCTYPE html>
<html>
<head>
<title>8th question</title>
</head>
<body>
<canvas id="myCanvas" width="300" height="150" style="border:1px solid #d3d3d3;"></canvas>
<script>
var c = document.getElementById("myCanvas");
var ctx = c.getContext("2d");
ctx.beginPath();
ctx.rect(20, 20, 150, 100);
ctx.stroke();</script>
</body>
</html>
```



```
<!DOCTYPE html>
<html>
<head>
<title>8th question</title>
</head>
<body>
<canvas id="myCanvas" width="200" height="100" style="border:1px solid #d3d3d3;"></canvas>
<script>
var c = document.getElementById("myCanvas");
var ctx = c.getContext("2d");
ctx.beginPath();
ctx.arc(95,50,40,0,2*Math.PI);
ctx.stroke();
</script>
</body>
</html>
```



```
<!DOCTYPE html>
<html>
<head>
<title>8th question</title>
</head>
<body>
<canvas id="myCanvas" width="300" height="150" style="border:1px solid #d3d3d3;"></canvas>
<script>
var c = document.getElementById("myCanvas");
var ctx = c.getContext("2d");
ctx.beginPath();
ctx.arc(100, 75, 50, 0, 0.5 * Math.PI);
ctx.stroke();
</script>
</body>
</html>
```



```
<!DOCTYPE html>
<html>
<head>
<title>8th question</title>
</head>
<body>
<canvas id="myCanvas" width="300" height="150" style="border:1px solid #d3d3d3;"></canvas>
<script>
var cir2 = document.getElementById("myCanvas");
var circir2 = cir2.getContext("2d");
circir2.beginPath();
circir2.arc(95, 50, 40, 0, 2 * Math.PI);
circir2.fillStyle = "blue";
circir2.fill();
</script>
</body>
</html>
```



```
<!DOCTYPE html>
<html>
<head>
<title>8th question</title>
</head>
<body>
<canvas id="myCanvas" width="300" height="150" style="border:1px solid #d3d3d3;"></canvas>
<script>
var c = document.getElementById("myCanvas");
var ctx = c.getContext("2d");
var grd = ctx.createLinearGradient(0,0,200,0);
grd.addColorStop(0,"red");
grd.addColorStop(1,"white");
ctx.fillStyle = grd;
ctx.fillRect(10,10,150,80);
</script>
</body>
</html>
```



```
<!DOCTYPE html>
<html>
<head>
<title>8th question</title>
</head>
<body>
<canvas id="myCanvas" width="300" height="150" style="border:1px solid #d3d3d3;"></canvas>
<script>
var c = document.getElementById("myCanvas");
var ctx = c.getContext("2d");
var grd = ctx.createRadialGradient(75,50,5,90,60,100);
grd.addColorStop(0,"red");
grd.addColorStop(1,"white");
ctx.fillStyle = grd;
ctx.fillRect(10,10,150,80);
</script>
</body>
</html>
```



html code: <!DOCTYPE html> <html> <head> <title>Question Eight</title> </head> <body> <canvas id="myCanvas" width="300" height="150" style="border:1px solid #d3d3d3;"> canvas.</canvas> <script> var c = document.getElementById("myCanvas"); var ctx = c.getContext("2d"); ctx.lineWidth = 10; ctx.strokeRect(20, 20, 80, 100); </script> </body> </html>



```
<!DOCTYPE html>
<html>
<head>
<title>Question Eight</title>
</head>
<body>
<canvas id="myCanvas" width="300" height="150" style="border:1px solid #d3d3d3;"></canvas>
<script>
var c = document.getElementById("myCanvas");
var ctx = c.getContext("2d");
ctx.strokeStyle = "#239505";
ctx.strokeRect(20, 20, 150, 100);
</script>
</body>
</html>
```

