In the above output window, once you will click on the embedded image, link will be explored.

3.4 IMAGE MAPPING

When you use an <IMG> element with an anchor element <A> to create a linking image, you can attach only one link to that image. To create a larger image that connects links to different regions or areas on the page, you need an image map. Image maps are used to define regions within a larger image as links.

So, the technique of making one image link to several pages, depending on where the image is clicked is called *image mapping*. You simply specify which areas of the image should link to where.

The <MAP> tag is used to define an image-map.

While creating an image map, following points should be considered:

(i) First of all, the image that is going to form the map is inserted into the web page using the <IMG> element as normal, except it carries an extra attribute called *usemap*.

(ii) The value of the *usemap* attribute is the value of the *name* attribute on the <MAP> element, preceded by a pound or hash sign.

(iii) The <MAP> element actually creates the map for the image and usually follows directly after the <IMG> element.

(iv) <MAP> element acts as a container for the <AREA> elements that actually define the clickable *hotspots*.

(v) The <MAP> element carries only one attribute, the name attribute, which is the name that identifies the map.

(vi) The <AREA> element specifies the shape and the coordinates that define the boundaries of each clickable hotspot.

Note: The <AREA> element is always nested inside a <MAP> tag.

3.4.1 <AREA> ATTRIBUTES

Attribute	Value	Description
shape	rect circle poly	Specifies the shape of the area.
coords	coordinates_values	Specifies the coordinates of the area.
alt	text	Specifies an alternate text for the area. Required if the href attribute is present.
title	text	Specifies title text as pop-up tips.
href	URL	Specifies the hyperlink target for the area.
target	blank _parent _self _top framename	Specifies where to open the target URL.

Example:

```
<HTML>
<HEAD>
    <TITLE>IMAGE MAPPING</TITLE>
</HEAD>
<BODY>
<CENTER>
<IMG SRC="PK.JPG" USEMAP="#MAP1" BORDER="0">
<MAP NAME="MAP1">
<AREA SHAPE="RECT" COORDS="331,153,431,195" HREF="FLOWER.JPG"
ALT="FLOWERS" TITLE="BEAUTIFUL FLOWER">
<AREA SHAPE="RECT" COORDS="522,153,617,196" HREF="WINTER.JPG"
ALT="WINTER" TITLE="WINTER SEASON">
<AREA SHAPE="RECT" COORDS="398,261,563,315" HREF="ABC.JPG"
ALT="GRAPHICS" TITLE="COOL PIC">
```

```
<AREA SHAPE="CIRC
TITLE="MUSIC NOT
<AREA SHAPE="PO
ALT="SPORTS" TITL
</MAP>
</CENTER>
</BODY>
</HTML>
```
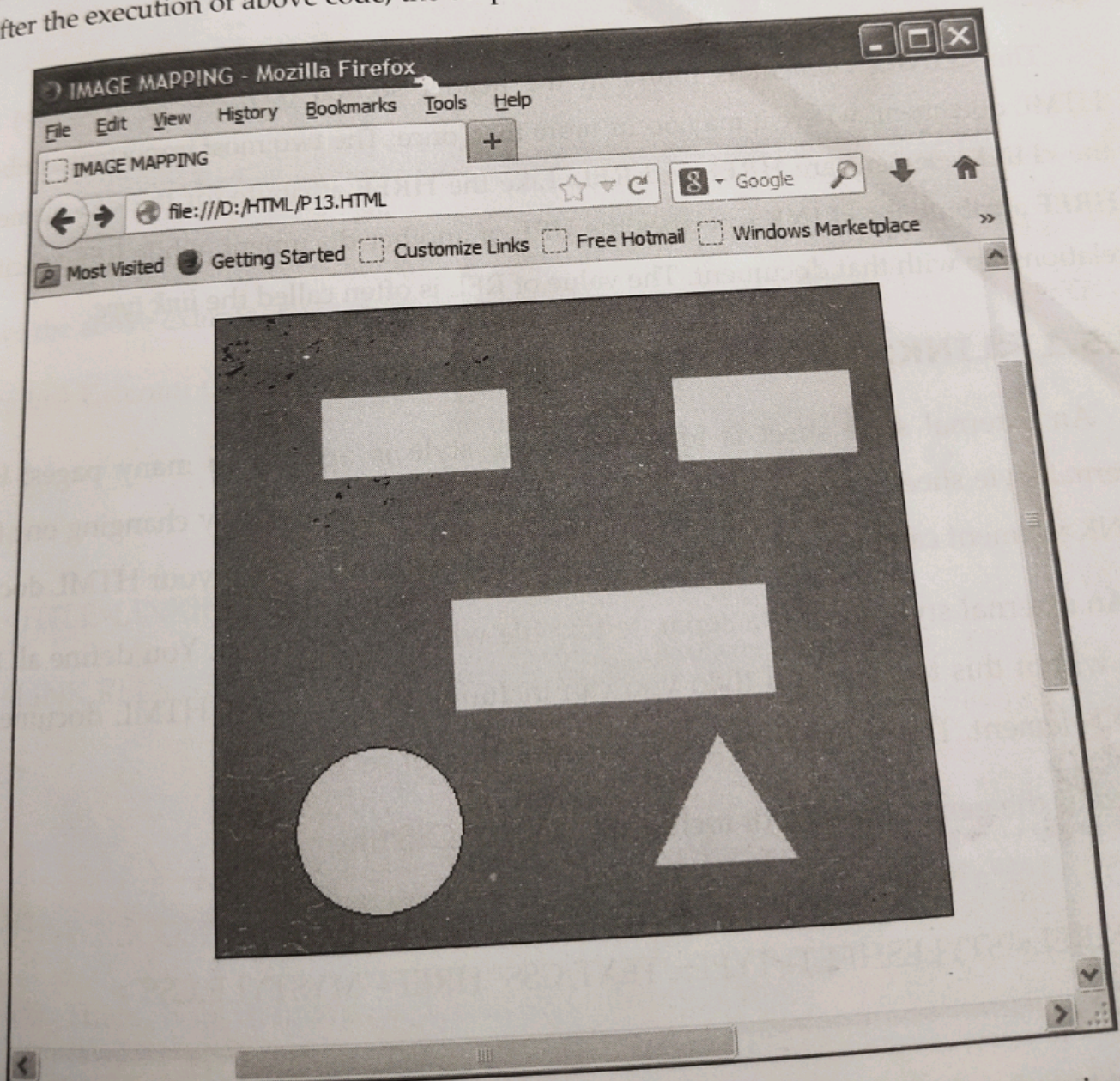
After the execut

IMAGE M
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Links and Addressing

```
<AREA SHAPE="CIRCLE" COORDS="359,370,40" HREF="MM.JPG" ALT="MUSIC"
TITLE="MUSIC NOTES">
<AREA SHAPE="POLY" COORDS="495,393,530,334,565,393" HREF="PCS.JPG"
ALT="SPORTS" TITLE="GAMES">
</MAP>
</CENTER>
</BODY>
</HTML>
```

After the execution of above code, the output would be look like:

...sits over a particular region in the