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**Multimedia Assignment**

**SMIL(Synchronized Multimedia Integration Language):**is a markup language like HTML for combining audio,video,text,animation and graphics in a precise,synchronized fashion. A SMIL file instructs the client to retrieve media elements that reside on the server as standalone files.

**The advantages of SMIL include the ability to:**

* Integrate media elements in a time-based presentation
* Reuse media elements in multiple presentations
* Allow users to choose the media tracks they prefer,for example based on connection speed or language preferences.
* Add hyperlinks in a time-based presentation

**Advantages of XML(extensible markup language):**

* XML uses human, not computer, language. XML is readable and understandable, even by novices, and no more difficult to code than HTML.
* XML is extendable. Create your own tags, or use tags created by others, that use the natural language of your domain, that have the attributes you need, and that makes sense to you and your users.

**Advantages of HTML(Hyper Text Markup Language):**

* HTML helps to build structure of a website and is a widely used Markup language.
* HTML is that it is easy to code even for novice programmers.
* It integrates easily with other languages such as JavaScript, CSS etc.
* HTML is increasingly used for data storage as like XML syntax.
* HTML has many tag and attributes which can short your line of code.

**What is the advantage of XML compared to HTML?**XML focuses on the transport of data without managing the appearance or presentation of the output. This makes XML easy to use as HTML focuses on presentation and has complex coding.

**Simple program display image sequential using python programming language:**

# import required modules

import tkinter as tk

from tkinter import \*

from PIL import Image

from PIL import ImageTk

# adjust window

root=tk.Tk()

root.geometry("500x500")

# loading the images

picture1=ImageTk.PhotoImage(Image.open("p2.jpg"))

picture2=ImageTk.PhotoImage(Image.open("p3.jpg"))

picture3=ImageTk.PhotoImage(Image.open("p4.jpg"))

b=Label()

b.pack()

# using recursion to slide to next image

i = 1

# function to change to slide image

def move():

global i

if i == 4:

i = 1

if i == 1:

b.config(image=picture1)

elif i == 2:

b.config(image=picture2)

elif i == 3:

b.config(image=picture3)

i = i+1

root.after(2000, move)

# calling the function

move()

root.mainloop()

**Simple program display image sequential using JavaScript programming language:**

<script>

var i=0;

var picture=[];

var seconds=3000;

picture[0]='p2.jpg';

picture[1]='p3.jpg';

picture[2]='p4.jpg';

function changePicture(){

document.slide.src = picture[i];

if(i<picture.length -1){

i++;

}

else{

i=0;

}

setTimeout("changePicture()",seconds);

}

window.onload=changePicture;

</script>

<img name="slide" width="400" height="400">