Self study for Wed:

* Complete the setups of your laptop, and Azure, as described under "Week01"
* Test John Calder's "b1s" Azure Database Server from home.  
  Create an empty test database for a Music Store.  
  Name it with your initials and "\_MusicStore" eg "JPC\_MusicStore"  
  Load in data from the SQL script now supplied in Week01 as "MvcMusicStore\_JPC\_v03.zip" and also attached to the email version of this announcement.
* Create an Azure Function that calculates the area of a circle.  
  Input the radius and output the area.  
  (If you cannot get Azure Functions to work, do this as programming revision and practice in any language and editor which you know)

using System.Net;

public static HttpResponseMessage Run(HttpRequestMessage req, TraceWriter log)

{

//optional use of logging

log.Info("Request from " + req.RequestUri);

double radius = 0;

foreach (var val in req.GetQueryNameValuePairs())

{

if (val.Key == "radius") radius = Double.Parse(val.Value);

}

//the working code for this example goes here

//most of the other code is commonly reused framework code\

double area = 0;

area = 3.142 \* radius \* radius;

return req.CreateResponse(HttpStatusCode.OK, area);

}

* Create this Azure Function  
  The local library has a summer reading program to encourage reading. The staff run a points system with prizes.Staff input how many books the reader has read. The first three books are worth 10 points each. The next three books are worth 15 points each. All books over six are worth 20 points each. Code this scenario as an Azure Function with input of number of books read and output of number of points.   
  (If you cannot get Azure Functions to work, do this in any language and editor which you know)  
  [Attribution: Adapted from pg 256 of Bradley, J., Millspaugh, A. (2010). Programming in Visual C# 2008. [Book]. ISBN 978-0-07-351721-6 McGraw Hill, New York.]

//Azure Function simplified to relate to coding style in other courses.

//Provides calculation for a library reading programme points system.

//Input number of books read. Output points.

//20180724 JPC John Calder

//

using System.Net;

public static HttpResponseMessage Run(HttpRequestMessage req, TraceWriter log)

{

//optional use of logging

log.Info("Request from " + req.RequestUri);

//replace "name" with your variable

//you also need to change the query key name

//in the run panel on the right

int readings = 0;

foreach (var val in req.GetQueryNameValuePairs())

{

if (val.Key == "readings") readings = Int32.Parse(val.Value);

}

//the working code for this example goes here

//most of the other code is commonly reused framework code\

int points = 0;

if (readings <= 3)

{

points = readings \* 10;

}

else if (readings <= 6)

{

points = (readings - 3) \* 15 + 30;

}

else

{

points = (readings - 6) \* 20 + 75;

}

return req.CreateResponse(HttpStatusCode.OK, points);

}

* Find out (by Google Search etc) what are the differences   
  between the Cloud Services "IaaS", "PaaS" and "SaaS"?