Q1> Explore the DVM instructions and prepare a summary of the same atleast for 5 instructions in a detailed format

i) instruction name: move

ii) syntax :move x,y //Moves the content of y into x.

Both registers must be in the first 256 register range.

iii)example :0110 - move v0, v1

Moves v1 into v0.

i) instruction name :return

ii)syntax :return x

iii)example :0F00 - return v0

Returns with return value in v0.

i)instruction name :aget

ii)syntax :aget vx,vy,vz

iii)example :4407 0306 - aget v7, v3, v6

Gets an integer array element. The array is referenced

by v3 and the element is indexed by v6.

The element will be put into v7.

i)instruction name :neg-int

ii)syntax :neg-int vx,vy

iii)example :7B01 - neg-int v1,v0

Calculates -v0 and stores the result in v1

i)instruction name :iget

ii)syntax :iget-quick vx,vy,offset

iii)example :F221 1000 - iget-quick v1, v2, [obj+0010]

Gets the value at offset 0CH of the instance pointed by v2 and stores the object reference in v1.

Q2> Differentiate between mobile and cloud computing

|  |  |
| --- | --- |
| Cloud computing | Mobile computing |
| allows you to store your files and folders in a “cloud” area on the Internet, allowing you access to all of your files and folders wherever you are in the world | This could be a laptop or a mobile phone or some device which enables you to telework – working wherever you go because of the small size of the device you’re using. |
| Cloud computing provides the convenience for users to help them access resources easily and quickly | With mobile computing we can check our email messages, our bills, our bank accounts, and our other private information just by using a mobile phone or laptop anywhere |
| basically [**virtual servers**](http://www.infoworld.com/video/InfoClipz/Virtualization-Networking/InfoClipz-Server-virtualization/video_721.html) available over the Internet | Physical service available on physical device |
| a way to increase capacity or add capabilities on the fly without investing in new infrastructure, training new personnel, or licensing new software | Capability is limited compared to cloud computing. |
| Cloud computing encompasses any subscription-based or pay-per-use service that, in real time over the Internet, extends IT's existing capability | encompasses subscription-based or pay-per-use service |

Q3> Give an example of an application simulating an environment of context aware computing and justify.



Example: Antalya Official City & Travel Guide

Starting from scratch Antalya Official City & Travel Guide re-thought the whole concept of why and how we all travel, of what we need when we get there and most importantly, what we don't. The result – ultra-smart travel companion stacked with priceless information for the discerning, value-conscious and busy traveller.

Justification:

Antalya Official City & Travel Guide is a context aware application that is developed as an interdisciplinary context aware case study. It is based on a real demand of Antalya as well as Turkey to enhance the visitor experience. Antalya Official City & Travel Guide presents information about points of interest, events, offers, to do's and much more in the vicinity of the person carrying the device.

With Antalya Official City & Travel Guide, by the time you get to your destination, all you need do is relax, because if it’s not in Antalya Official City & Travel Guide, you’re not missing anything. Hyper-opinionated, irreverent, bright and fun to use, whether you have a few hours or a few days, Antalya Official City & Travel Guide really is all you need. Just for your information, you’ll never hear us refer to our users as tourists.

With Antalya Official City & Travel Guide you’re a visitor. It’s a big difference.