

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

<u>Instruction</u>	<u>Syntax</u>	<u>Description</u>	<u>Example</u>
move	move/16 vAAAA,vBBBB	moves the contents of a 16-bit register B to another 16-bit register A. Similar instructions: move,move-wide,move-object	move/16 v1,v2
return	return vx	returns the value vx. Similar instructions: return-void,return-wide,return-object	return v1
throw	throw vx	throws the exception object referenced at vx	throw v1
goto	goto target	Unconditional jump to the target by an offset of type short . Similar instructions: goto/16, goto/32	goto 0110
if-eq	if-eq vx,vy,target	Checks for equality of integer values in vx and vy. If true, it jumps to the target. Similar instructions: if-ne, if-lt, if-ge, if-gt, if-le	if-eq v0,v1,0200

Differentiate between mobile and cloud computing

<u>Mobile Computing</u>	<u>Cloud Computing</u>
Mobile Computing involves transmitting data, voice and video via a computer or any other wireless enabled device without having to be connected to a fixed physical link.	Cloud Computing involves computing or data transfer on distributed systems over a network (like internet)
Computing can happen offline when the device is not connected to any network.	Computing needs persistent network connectivity
Mobile communication (data transfer over a mobile network=> GSM,CDMA,Wi-fi), Mobile Hardware (Laptops,Smartphones,Tablet PCs) and Mobile Software (Android,IOS,Windows) constitute to Mobile Computing	Infrastructure as a Service, Platform as a Service, Software as a Service and Network as a Service constitute to Cloud Computing

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

Google Maps application simulates an environment of context aware computing by bringing up a virtual pointer referring to the device and its orientation with respect to the map of the current vicinity. Any movement of the device with respect to positioning reflects on the map via the pointer.