1. Discuss Features of Virtual Machine.

● **Almost every operating system can be installed** in the majority of virtual machines, such as Windows, Linux, Android or Mac OS X. Notwithstanding, there exist others allowing only one operating system to be displayed.

● **Each operating system that is being virtualized is completely independent from the rest of the operating systems.** Therefore, if a virtual machine suffers any problem or stops working directly, others will not be affected and will continue their course and functioning.

● **Operating systems' mode of use from a virtual machine is identical** to that of an operating system installed on any computer.

● **Elements composing a virtual machine are the same as those available in a physical computer.** From the RAM and hard disk, to the CD-ROM drive, video card and network card, are included in a virtual machine, the virtualization of all these elements being the only difference with respect to a real computer.

● **All of the elements in a virtual machine are included in a set of files. In this way, a copy of a virtual operating system is made possible** from a computer to another, as well as the generation of backup copies. Both processes are carried out quickly and easily; technical problems are avoided too.

2. Write job to display Hello Message Through Line Printer .

Q. 2] Write a job to display Hello message through Line Printer.

$ AMJ 0001000300001   → Control Card (

GD1O PD 10H   → Program Card

$ DTA

Hello

$ ENDOO1

3. Write job to display message-**I Like This PEN of His** Through Line Printer. Assume Data Cards-**I Like This PEN of**

Q.3] write a job to display, "I like this Pen of this" Through line Printer Assume data cards - "I like this Pen of"

Address	Memory Loc^n Content				
10	I			L	I
11	K	E			T
12	H	I	S		
13	P	E	N		
14	O	F			
15					

$ AMJ 0002 0005 0001

GDIO LR12 SR15 PDIOH

$ DTA

I LIKE THIS PEN OF

$ END 0002