JAVA DEMO CLASS[DAY-3]

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COMPILATION AND INTERPRETATION

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1.WHAT IS PLATFORM?

-> THE COMBINATION OF HARDWARE(MICROPROCESSOR) AND SOFTWARE(OPERATING SYSTEM) IS CALLED AS PLATFORM.

2.WHAT IS COMPILATION?

-> THE PROCESS OF CONVERTING HLL TO LLL BY THE COMPILER IN ONE SHOT IS CALLED AS COMPILATION.

3.WHAT IS INTERPRETATION?

-> THE PROCESS OF CONVERTING HLL TO LLL BY INTERPRETER LINE BY LINE IS CALLED AS INTERPRETATION.

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ORGANIZATION OF MEMORY

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1.WHAT IS LOADING?

-> THE PROCESS OF TAKING DATA FROM THE HARD DISK AND PLACING IT ON RAM IS CALLED AS LOADING.

2.WHAT IS SAVING?

-> THE PROCESS OF TAKING DATA FROM THE RAM AND PALCING IT ON THE HARD DISK IS CALLED AS SAVING.

NOTE:DATA PRESENT ON HARD DISK IS CALLED AS FILE.

DATA PRESENT ON RAM IS CALLED AS BYTE.

DATA PRESENT ON MICROPROCESSOR IS CALLED AS REGISTER.

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OBJECT FILE AND EXECUTABLE FILE

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OBJECT FILE:IT IS INCOMPLETE FILE CONSIST OF ONLY MACHINE LEVEL LANGUAGE

EXECUTABLE FILE: IT IS A COMPLETE FILE CONSIST OF MLL AND CORRESPONDING LIBRARY FILE

1.WHAT IS LINKER?

-> LINKER IS S/M S/W WHICH WILL TAKE OBJECT FILE AND ITS CORRESPONDING FILE AS INPUT AND GIVES EXECUTABLE FILE AS OUTPUT

2.WHAT IS LODER?

-> LOADER IS A S/M S/W WHICH LOADS EXECUTABLE FILE TO THE RAM.

3.WHAT IS LINKING LOADER?

->THE HYBRID S/M S/W WHICH WILL PERFORM BOTH LINKING AND LOADING.

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JAVA COMPILER:WILL TAKE HLL CODE AS INPUT AND COVERTS INTO BYTE CODE.

BYTECODE: IT IS EITHER HLL OR MLL HENCE IT IS CALLED AS INTERMEDIATE LANGUAGE.

JVM:JAVA VIRTUAL MACHINE WHICH TAKES BYTE CODE AS INPUT AND CONVERTS INTO MLL.

NOTE:WHILE DOWNLOADING THE JVM FROM THE INTERNET WE SHOULD DOWNLOAD OPERATING SYSTEM COMPATABLE JVM BECUASE JVM IS PLATFORM DEPENDENT

JVM IS PLATFORM DEPENDENT BECAUSE IT IS CREATED USING C PROGRAMMING LANGUAGE

NOTE:JAVA IS RELATIVELY SLOW IN ITS EXECUTION COMPARE TO C AND C++

JAVA PROGRAMS ARE [WORA] WRITE ONCE RUN ANYWHERE.

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