1. Mention the difference between interpreter and compiler.

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| Compiler | Interpreter |
| * A compiler takes the entire program in one go. * The compiler generates an intermediate machine codes. * The compiler is best suited for the production environment. * It is faster . * It is more efficient. * These are larger in size. * The compiler used by programming languages such as C,C++, C#, Scala, JAVA etc. * Error detection is difficult. | * An interpreter takes a single line of code at a time. * The interpreter never produces any intermediate machine code. * An interpreter is best suited for a software development environment. * It is slower. * It is less efficient. * These are smaller than compilers. * An interpreter is used by programming languages such as Python, PHP, Perl, Ruby etc. * Error detection is easier comparatively. |

2. Define a class Student with following members:

int roll, String name, float marks.

input() to take input of the details

display() to all details of a student.

Write a program to which will store details of a student and print the details using the above

Answer:

import java.util.Scanner;

public class Student

{

private String name;

private int roll;

private float marks;

}

public void input() {

Scanner in = new Scanner(System.in);

System.out.print("Enter student name: ");

name = in.nextLine();

System.out.print("Enter student roll number ");

roll = in.nextInt();

System.out.print("Enter marks : ");

marks = in.nextInt();

}

public void display() {

System.out.println("Name: " + name);

System.out.println("roll number: " + roll);

System.out.println("Marks : " + marks);

public static void main(String args[]) {

Student obj = new Student();

obj.input();

obj.display();

}

}