**ASSIGNMENT 1**

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1. **Mention the difference between interpreter and compiler?**

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| Interpreter translates just one statement of the program at a time into machine code. | Compiler scans the entire program and translates the whole of it into machine code at once. |
| An interpreter takes very less time to analyze the source code. However, the overall time to execute the process is much slower. | A compiler takes a lot of time to analyze the source code. However, the overall time taken to execute the process is much faster. |
| An interpreter does not generate an intermediary code. Hence, an interpreter is highly efficient in terms of its memory. | A compiler always generates an intermediary object code. It will need further linking. Hence more memory is needed. |
| Keeps translating the program continuously till the first error is confronted. If any error is spotted, it stops working and hence debugging becomes easy. | A compiler generates the error message only after it scans the complete program and hence debugging is relatively harder while working with a compiler. |

1. **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 class.**

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**class student {**

**int roll;**

**String name;**

**float marks;**

**void input( int r,String n,float m) {**

**roll=r;**

**name=n;**

**marks=m;**

**}**

**void display(){**

**System.out.println( "roll:"+roll+" "+ "name:"+name+" "+"marks:" +marks);**

**}**

**}**

**class driverstudent {**

**public static void main(String[] args) {**

**student ob = new student();**

**ob.input(60,"Neha",99);**

**ob.display();**

**}**

**}**