Assigment day:- 1

JAVA PROGRAMMING **(31-08-2021)**

Difference between Compiler and Interpreter

Compiler

- It scans the entire program in one go.
- It doesn't require the source code for execution later.
- Programming languages that uses compilers are C, C++, C#.
- It helps parse or analyse the language statements.
- It takes an entire program as input and generates intermediate machine code
- As and when scanning is performed, all these are shown in the end together, not line by line.
- It converts the source code to object code.
- Its execution time is less, hence it is preferred.
- as output.
- Difficult to implement as compilers cannot predict what happens at turn time.

Interpreter

- The program is interpreted/translated one line at a time.
- One line of code is scanned, and errors encountered are shown.
- It doesn't convert source code into object code.
- It requires the source code for execution later.
- Programming languages that uses interpreter are- Python, Ruby, Perl, MATLAB.
- Usually, interpreter is slow, and hence takes more time to execute the object code.
- It is not preferred due to its slow speed.

Submitted by Ankush.....