Difference

between

compiler and Interpreter

Difference ty pes

compiler

Interpreter

Programming otaps

\* write a program in source code

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\* compile will analyye you've program statements and check their correctness - If an error is found in a program, it throws an

\* No linking of files happens, or no madrine rode will generate sopowetely

ervor mossage \* If the program contains no ervor, then the compiler will convert

\* The source code programming statetements are oxietabled line-by-

the source code program into madrine code. \* The compiler times all

line during the excecution. If

the cock files into a single rumable program, which is known as the

an evvor is found at any specific statement interpreter, it stops

\* Finally it runs the program and generates output.

Exce file .

further execution until the error gets removed.

Translation dype.

a compiler translates complete high-level programming code into madrine code at once

on interpreter translates one statement of programming code at a time 19tho machine code.

pifference Types	compiler.	Interpreter
Machine code	4t stoves converted machine code from your source code program on the disk.	The never stoves the machine code at all on the disk .
Running	enouverous time to .  enouverous time to .  analyse source code .  However , overall .  compiled programming code runs faster as compression to an genter preter .	In interpreter takes less  time to analyge source code as compared to compiler. Interpreted.  programming code runs slower as compression to an compiler.
Program. generation	on output of a  program (in the form  of one-file I that  can vur separately  from the source  program	The Interpreter does not generate a separate a separate markine code as an output program = so it checks the source code every time during the Execution.
Memory	a compiled program is generated into an intermediate object code, and it further required linking - so there is required for memory	an interpreted program does not generate an intermediate code. so there is no requirement of Entra memory.