

Programming Languages

"Hello, World!"

"Hello, World!" is a small program that simply prints the message "Hello, World!" either in a terminal or console, or embedded within graphical user interfaces. Programmers tend to use it as a demonstration of the programming language's syntax, or to check their programming environment's configuration.

Activity

You will find below a list of "Hello, World!" programs. Try to find the programming language they are written in. Here is a list of candidate languages to help you (there are 4 intruders).

JavaScript	Python	C#	Haskell
Java	Kotlin	Scala	Piet
Unix Shell	ArnoldC	MATLAB	COBOL
Fortran	Standard ML	Dart	Pascal
	Java Unix Shell	Java Kotlin Unix Shell ArnoldC	Java Kotlin Scala Unix Shell ArnoldC MATLAB

1 –

```
#include <stdio.h>
int main() {
   printf("Hello, World!");
   return 0;
}
```

2 –

```
console.log("Hello, World!");
```

3 –

4 –

```
fun hello() = print("Hello World!");
hello();
```

5 –

```
using System;
public class HelloWorld
{
    public static void Main()
    {
        Console.WriteLine("Hello, World!");
    }
}
```

6 –

```
program HelloWorld(output);
begin
  WriteLn('Hello, World!');
end.
```

7 –

```
package helloworld;

public class HelloWorld {
    public static void main( String args[] ) {
        System.out.println( "Hello, World!" );
    }
}
```

```
disp("Hello, World!");
```

9 _

```
global start
section .text
_start:
            ; system call for write
 mov rax, 1
 mov rdi, 1 ; file handle 1 is stdout
 mov rsi, msg ; address of string to output
 mov rdx, len ; number of bytes
 syscall
               ; invoke operating system
 mov rax, 60 ; system call for exit
 mov rdi, 0
               ; exit code 0
 syscall
               ; invoke operating system to exit
section .data
 msg: db "Hello, World!", 10
 len: equ $ - msg
```

10 -

```
def hello():
    print("Hello, World!")
hello()
```

11 –

```
#include <iostream.h>
main()
{
   cout << "Hello, World!" << endl;
   return 0;
}</pre>
```

12 –

```
object Hello {
   def main(args: Array[String]) = {
      println("Hello, World!")
   }
}
```

13 –

```
void main() {
  print('Hello World!');
}
```

14 –

```
IT'S SHOWTIME

TALK TO THE HAND "Hello, World!"

YOU HAVE BEEN TERMINATED
```

15 –

```
with Text_IO;
procedure Hello_World is

begin
   Text_IO.Put_Line("Hello, World!");
end Hello_World;
```

16 -

```
PROGRAM HELLO
   WRITE (*,100)
   STOP
100 FORMAT (' Hello, World! ' /)
   END
```