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B.N: 950

Topic: Programming language

GitHub link: <https://github.com/Manar-hussien/ECE001>

GitHub pages: <https://manar-hussien.github.io/ECE001/>

Programming language:

A programming language is a proper language containing a lot of directions that produce different sorts of yield. Programming languages are used in computer programming to implement algorithms. Most programming languages comprise of directions for PCs. There are programmable machines that use a set of specific instructions, rather than general programming languages.

The types of programming languages are: Procedural, Functional, Object-oriented, Scripting and Logic Programming Language. Programming is definitely important because it helps us to: interact with machines and computers, harness the power of computing in all human endeavor, automate tasks and create intelligent machines and it helps me do my work better, faster and in a more efficient manner.

Source code:

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title> index.html </title>
5     <meta name="author" content="manar elsaady" />
6     <meta name="description" content="that page contains some info" />
7   </head>
8   <body>
9     <ul>
10
11       <li> <a href="index.html"> main page </a> </li>
12       <li> <a href="types of programming language.html"> types of programming languages </a> </li>
13       <li> <a href="uses of programming language.html"> uses of programming language </a> </li>
14       <li> <a href="people benefit from programming language.html"> people benefit from programming language </a> </li>
15       <li> <a href="Future of Programming Language.html"> Future of Programming Languages </a> </li>
16
17     </ul>
18
19     <h1>programming languages </h1>
20
21     <p>
22       <h2> <br /> <u> Brief of programming languages: </u> <br /> </h2>
23       -A programming language is a formal language which includes a collection of instructions that produce different output types.
24       The Programming languages are used to implement algorithms in computer programming.
25
26 <br /> - A programming language is a notation for writing programs which are machine or algorithm specifications.
27 Many writers limit the word 'programming language' to those languages which can be expressed all algorithms available.
28 Traits often considered important for what constitutes a programming language include: <br />
29
30 <br /> - Computer programming languages allow us to offer instructions to a computer in a language the computer understands.
31 Just as many human-based languages exist, there are an array of computer programming languages that programmers can use to communicate with a computer. The portion of the
32 language that a computer can understand is called a "binary." converting programming language into binary is known as "compiling."
33 Each language, from C Language to Python, has its own distinct features, though the programming languages often have commonalities
34 .<br />
35
36 <br /> These languages allow computers to process large and complex swaths of information quickly and efficiently.
37 For instance, if a person receives a list of randomized numbers ranging from one to ten thousand and is asked to position them in ascending order.
38 chances are that it will take a sizable amount of time and include some errors.<br />
39
40
```

```

46 <a href="https://www.computerscience.org/resources/computer-programming-languages/">click here </a>
47 <br /><a href="https://www.linkedin.com/pulse/importance-computer-programming-azirulayazwan-jaffar/">click here </a><br />
48
49
50 <h2>HTML Table</h2>
51
52 <table border="1">
53 <tr>
54 <th>programming language</th>
55 <th>scripting language </th>
56
57 </tr>
58 <tr>
59 <td>a programming language is an organized way of communicating with a computer .</td>
60 <td>a scripting language is a programming language that supports scripts.</td>
61
62 </tr>
63 <tr>
64 <td>traditional programming is based on low level language .</td>
65 <td>scripting prefers high level languages.</td>
66
67 </tr>
68 <tr>
69 <td>the traditional programming languages such as c,c++ and java are compiled.</td>
70 <td>perl,python,javascript, and other languages used for scripting are interpreted and do not require the compilation step .</td>
71
72 </tr>
73 <tr>
74 <td>general programming leads to closed software applications . </td>
75 <td>scripting promotes open projects and is used for web applications .</td>
76
77 </tr>
78 <tr>
79 <td>
80 <td> more code needs to be written
81 <td> less coding is required in scripting
82
83 </td>
84 </tr>
85 </table>
86
87 </body>
88

```

```

index.html X types of programming language.html X uses of programming language.html X people benefit from programming language.html X Future of Programming Language.html X
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title> types of programming languages </title>
5
6 <meta name="author" content="manar elsaady" />
7 <meta name="description" content="that page contains some info" />
8 </head>
9 <body>
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14 <li> <a href="uses of programming language.html"> uses of programming language</a> </li>
15 <li> <a href="people benefit from programming language.html">"people benefit from programming language </a> </li>
16 <li> <a href="Future of Programming Language.html"> Future of Programming Languages</a> </li>
17
18 </ul>
19
20 <h1> programming languages</h1>
21
22 <p>
23 <h2> <u> Types of programming languages: </u> </h2>
24 <h3> type 1: Low level language: </h3>
25
26 <br /> a- Machine language (1GL).<br />
27 <br /> b- Assembly language (2GL).<br />
28 <h3> type 2: High level language: </h3>
29 <br /> a- Procedural-Oriented language (3GL)
30
31 <br /> b- Problem-Oriented language (4GL) .<br />
32 <br /> 3-Natural language (5GL).<br />
33
34 <h4> 1. Low level language:</h4>
35 This language is the most comprehensible language used by computer to run its operations.
36
37 <h4> 2. High level language: </h4>
38
39 Instructions of this language are closely resembling words like person or English. The task is performed using mathematical notations.
40 It's easier to understand the language at the high point. It takes less time to write, so avoiding the errors easier.
41 Either of the two separate language translator programs translates the high level language into a computer language; interpreter or compiler.
42
43
44 <h2> Names of programming languages:
45
46 <ol>
47 <li> Procedural Programming Language. </li>
48 <li> Functional Programming Language</li>
49 <li>Object-oriented Programming Language.</li>
50 <li>Scripting Programming Language. </li>
51 <li>C++ Language.</li>
52 </ol> </h2>
53
54
55 </p>
56 </body>
57
58
59
60 </html>

```

```

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17
18    </ul>
19
20    <h1>programming language</h1>
21
22    <p>
23
24    <h2><br /> <u> Importance and uses of programming language: </u><br /> </h2>
25
26    <br />Programmers use communicate with computers using programming languages.
27    There several languages exist, and each one has its own unique characteristics, although they do share some similarities.
28    <br /> <br /> Because each language is different, each one within certain industries may be best suited for a particular purpose or purpose.
29    Many programming languages are used to construct programs for problem-solving or data analysis.<br /> <br />
30    Other programming languages are more likely to create fun applications or games.
31    Requiring special and diverse programming languages,
32    <br /> <br /> The creation of a single universal programming language that meets all the needs is virtually impossible.
33    The programming languages are frequently updated and even merged over time with other languages to suit our changing technical needs.<br />
34    <h3>There are many uses of a programming language:</h3>
35
36    <br />- The computer can be told what to do in a human-readable manner. <br />
37    <br />- Lets the programmer structure the instructions in functions, procedures, etc.<br />
38
39
40    </body>
41  </html>
42

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17
18    </ul>
19
20    <h1>programming language</h1>
21
22    <p>
23
24    <h2><br /> <u> The benefits of learning to code .
25
26    </u><br /> </h2>
27    Here are a few of the ways learning to code can benefit you.
28    <h3> 1- Coding and programming careers have great earning potential </h3>
29
30    -
31    The earning potential for coding and programming professionals is one of the strongest and most obvious draws of learning to code.
32    The Bureau of Labor Statistics (BLS) tracks salary and other important information about the workforce for a range of careers.
33
34
35    <h3> 2-Demand remains strong for coding-related jobs </h3>
36    -What good is a high salary if nobody wants to recruit for the position? There's always a lot of demand when it comes to coding-related work.
37
38
39    <h3> 3-Coding ability gives new perspective to problem solving</h3>
40    - "Learning to code has the unintentional effect of teaching you how to think," says Nuvro CEO Adrian Degus.
41    He goes on to explain he used to be more inclined to emotionally solve problems. Yet his familiarity with coding has helped him to objectively solve problems.
42    "Deep-seated understanding of logic has strengthened my problem solving ability tenfold," he says.
43

```

```

44
45
46    <h3> 4- Learning to code offers career flexibility </h3>
47
48    -Learning to code can help open up new areas of opportunities in your career and ultimately make you a more flexible candidate in a fast-moving digital economy.
49    Daniel Davidson, owner of Dan Design Co., started his career in print design but found that due to a lack of coding expertise he was continually losing out on opportunities.
50
51
52    <h3> Coding can be useful in jobs you might not expect </h3>
53    -
54    You might think that coding and programming skills are valuable only to people who work in highly technical specialist jobs.
55    While it's true that learning to code is more important for certain roles, it doesn't mean that you can't find practical ways to apply coding knowledge in non-coding jobs.
56
57
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```

```
1 <!DOCTYPE html>
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16
17     </ul>
18
19     <h1>Programming Languages</h1>
20
21     <p>
22
23     <h2>The Future of Programming Languages</h2>
24
25     Advancing technology promises a continued evolution of programming languages. Predicting programming 's future, though, can be challenging.
26     As more appliances and devices are designed to run on a computer chip, software will need to be maintained regularly to keep it up to date and functioning correctly.
27     Programmers are constantly confronted with the challenges of protecting devices from viruses and developing applications that enable users to use their devices cohesively.
28     The newest programming languages are going to be quicker and more intuitive with fewer errors and problems.
29     For instance, R is one of the most recent programming languages and was designed by statisticians for data analysis.
30
31   </p>
32
33   
34
35 </body>
36 </html>
```

Screenshots:

- [main page](#)
- [types of programming languages](#)
- [uses of programming language](#)
- ["people benefit from programming language"](#)
- [Future of Programming Languages](#)

programming languages

Brief of programming languages:

-A programming language is a formal language which includes a collection of instructions that produce different output types. The Programming languages are used to implement algorithms in computer programming.
 - A programming language is a notation for writing programs which are machine or algorithm specifications. Many writers limit the word 'programming language' to those languages which can be expressed all algorithms available. Traits often considered important for what constitutes a programming language include:

- Computer programming languages allow us to offer instructions to a computer in a language the computer understands. Just as many human-based languages exist, there are an array of computer programming languages that programmers can use to communicate with a computer. The portion of the language that a computer can understand is called a "binary." converting programming language into binary is known as "compiling." Each language, from C Language to Python, has its own distinct features, though the programming languages often have commonalities .

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[click here](#)
[click here](#)

HTML Table

programming language	scripting language
a programming language is an organized way of communicating with a computer.	a scripting language is a programming language that supports scripts.
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general programming leads to closed software applications .	scripting promotes open projects and is used for web applications .
more code needs to be written	less coding is required in scripting

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type 1: Low level language:

- a- Machine language (1GL).
- b- Assembly language (2GL).

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1. Procedural Programming Language.
2. Functional Programming Language
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4. Scripting Programming Language. .
5. C++ Language.

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The benefits of learning to code .

Here are a few of the ways learning to code can benefit you.

1. Coding and programming careers have great earning potential

- The earning potential for coding and programming professionals is one of the strongest and most obvious draws of learning to code. The Bureau of Labor Statistics (BLS) tracks salary and other important information about the workforce for a range of careers.

2.Demand remains strong for coding-related jobs

-What good is a high salary if nobody wants to recruit for the position? There's always a lot of demand when it comes to coding-related work.

3.Coding ability gives new perspective to problem solving

- "Learning to code has the unintentional effect of teaching you how to think," says Nuvo CEO Adrian Deges. He goes on to explain he used to be more inclined to emotionally solve problems. Yet his familiarity with coding has helped him to objectively solve problems. "Deep-seated understanding of logic has strengthened my problem solving ability tenfold," he says.

4. Learning to code offers career flexibility

-Learning to code can help open up new areas of opportunities in your career and ultimately make you a more flexible candidate in a fast-moving digital economy. Daniel Davidson, owner of Dan Design Co., started his career in print design but found that due to a lack of coding expertise he was continually losing out on opportunities.

Coding can be useful in jobs you might not expect

- You might think that coding and programming skills are valuable only to people who work in highly technical specialist jobs. While it's true that learning to code is more important for certain roles, it doesn't mean that you can't find practical ways to apply coding knowledge in non-coding jobs.

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```
358 }
359
360 Carousel.prototype.getItemForDirection = function (direction) {
361   var delta = direction == 'prev' ? -1 : 1
362   var activeIndex = this.getItemIndex(this.$active)
363   var itemIndex = (activeIndex + delta) % this.$items.length
364   return this.$items.eq(itemIndex)
365 }
366
367 Carousel.prototype.to = function (pos) {
368   = this
369   var that
370   var activeIndex = this.getItemIndex(this.$active = this.$element.find('.item.active'))
371
372   if (pos > (this.$items.length - 1) || pos < 0) return
373   if (this.sliding) return this.$element.one('slid.bs.carousel', function () { that.to(pos) })
374   if (activeIndex == pos) return this.pause().cycle()
375   return this.slide(pos > activeIndex ? 'next' : 'prev', this.$items.eq(pos))
376 }
377
```