



Faculty of engineering - Shoubra
Benha University

Research Article / Research Project / Literature Review

in fulfillment of the requirements of

Department	Engineering Mathematics and Physics
Division	-----
Academic Year	2019-2020 Preparatory
Course name	computer
Course code	ECE001

Title: -

Build a website on recent computer engineering topics

By:

	Name	Edu mail	B.N
1	Amr atef tawfiq mohamed	Amr195641@feng.bu.edu.eg	578

Approved by:

Examiners committee	Signature

1- Link to my github website :

<https://amratef753.github.io/ece001/>

2- A programming language is a vocabulary and set of grammatical rules for instructing a computer or computing device to perform specific tasks. The term programming language usually refers to high-level languages. Each programming language has a unique set of keywords (words that it understands) and a special syntax for organizing program instructions.

3- USES OF PROGRAMMING LANGUAGES:

- Web Development
- Game Development
- Mobile Development

4- HIGH LEVEL PROGRAMMING LANGUAGES:

High-level programming languages, while simple compared to human languages, are more complex than the languages the computer actually understands, called machine languages. Each different type of CPU has its own unique machine language.

Lying between machine languages and high-level languages are languages called assembly languages. Assembly languages are similar to machine languages, but they are much easier to program in because they allow a programmer to substitute names for numbers. Machine languages consist of numbers only.

Lying above high-level languages are languages called fourth-generation languages (usually abbreviated 4GL).

4GLs are far removed from machine languages and represent the class of computer languages closest to human languages.

5- COMMON PROGRAMMING LANGUAGES:

- JAVA
- C++
- C#
- PHP
- PYTHON
- RUBY

- FORTRAN
- PASCAL
- JAVA SCRIPT

6- Source code and screenshots

```
<html>
<head>
</head>
<body>
<h1 align = "center">Programming Languages</h1>
<img src = "programming_language.jpg" width = "100%" height = "50%">
<h2>WHAT IS PROGRAMMING LANGUAGES? </h2>
<p>
A programming language is a vocabulary and set of grammatical rules for
instructing a computer or computing device to perform specific tasks.
The term programming language usually refers to high-level languages.
Each programming language has a unique set of keywords (words that it understands)
and a special syntax for organizing program instructions.
</p>
<br>
```

```
<h2>WHAT ARE THE MOST COMMON PROGRAMMING LANGUAGES ?</h2>
<img src = "coding.jpg" align="right" >
<ol type="1">
<li>JAVA</li>
<li>C++</li>
<li>C#</li>
<li>PHP</li>
<li>PYTHON</li>
<li>RUBY</li>
<li>FORTRAN</li>
<li>PASCAL</li>
<li>JAVA SCRIPT</li>
<li>SWIFT</li>
</ol>
<br>
```

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<h2>IMPORTANT LINKS:</h2>
<a href="ranking.html" target="_blank">IEEE SPECTRUM INTERACTIVE RANKING</a>
<br>
<br>
<a href="types.html" target="_blank">TYPES OF PROGRAMMING LANGUAGES</a>
<br>
<br>
<a href="difference.html" target="_blank">The Difference Between Different Programming Languages</a>
<br>
<br>
<a href="hello_world.html" target="_blank">Hello World In Different Programming Languages</a>
</body>
```

```

<html>
<head>
</head>

<body>
<table border="5" width="100%" >
  <caption>Top Programming Language Rank By IEEE</caption>
  <tr>
    <th>Language</th>
    <td>python</td>
    <td>C</td>
    <td>java</td>
    <td>c++</td>
    <td>c#</td>
    <td>java script</td>
    <td>swift</td>
  </tr>

  <tr>
    <th>Rank</th>
    <td>100%</td>
    <td>100%</td>
    <td>99.4%</td>
    <td>96.6%</td>
    <td>88.1%</td>
    <td>85.3%</td>
    <td>74.3%</td>
  </tr>
</table>

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<html>
<head>
</head>

<body>
<table border="1" >
  <caption>differences between different programming languages</caption>
  <tr>
    <th>Language</th>
    <td>c++</td>
    <td>C</td>
    <td>pascal</td>
    <td>fortran</td>
    <td>java</td>
    <td>perl</td>
    <td>PHP</td>
  </tr>

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<tr>
  <th>Image</th>
  <td></td>
  <td></td>
  <td></td>
  <td></td>
  <td></td>
  <td></td>
  <td></td>
</tr>

</table>

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```

<html>
<head>
</head>

<body>
  <h2>"Hello World" Using Different Programming Languages</h2>
  <ul>
    <li><b>java</b></li>
    <ul>
      <li>
        class HelloWorldApp {<br>
        public static void main(String[] args) {<br>
        System.out.println("Hello World!"); <br>
        }<br>
        }<br>
      </li>
    </ul>
  </ul>

  <br>
  <br>

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<li><b>C++</b></li>
<ul>
  <li>
    #include <iostream><br>
    int main() <br>
    {<br>
    std::cout << "Hello, world!\n";<br>
    return 0;<br>
    }<br>
  </li>
</ul>

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<br>

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<li><b>C</b></li>
<ul>
  <li>
    #include <stdio.h><br>
    int main(void) <br>
    {<br>
    printf("hello, world\n");<br>
    }<br>
  </li>
</ul>

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