



**Benha University**  
**Faculty of Engineering - Shoubra**  
**Academic year 2019-2020**



**Faculty of engineering - Shoubra**  
**Benha University**

**Research Article / Research Project / Literature Review**

in fulfillment of the requirements of

|                      |  |
|----------------------|--|
| <b>Department</b>    | <b>Engineering Mathematics and Physics</b> |
| <b>Division</b>      | -----                                      |
| <b>Academic Year</b> | <b>2019-2020 Preparatory</b>               |
| <b>Course name</b>   | <b>Computer</b>                            |
| <b>Course code</b>   | <b>ECE001</b>                              |

**Title: -**

**Build a website on recent computer engineering topics**

By:

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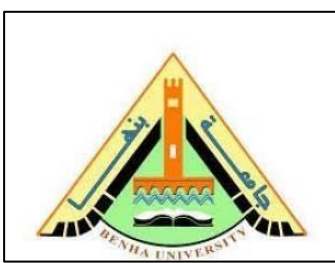


## Literature Review

### Programming language

**Computer programming language**, any of various languages for expressing a set of detailed instructions for a digital computer. Such instructions can be executed directly when they are in the computer manufacturer-specific numerical form known as machine language, after a simple substitution process when expressed in a corresponding assembly language, or after translation from some “higher-level” language. Although there are many computer languages, relatively few are widely used.

Machine and assembly languages are “low-level,” requiring a programmer to manage explicitly all of a computer’s idiosyncratic features of data storage and operation. In contrast, high-level languages shield a programmer from worrying about such considerations and provide a notation that is more easily written and read by programmers.



## Programming Languages Main Page

links :

- [PL main page](#)
- [PL definition](#)
- [PL types](#)
- [PL most populer](#)
- [comparison between programming languages](#)

| language    | Type safty | Type checking                       | imperative | functional | Generic |
|-------------|------------|-------------------------------------|------------|------------|---------|
| C++         | unsafe     | static                              | yes        | yes        | yes     |
| Java        | safe       | static                              | yes        |            | yes     |
| PHP         |            | dynamic                             | yes        |            |         |
| Java script | safe       | dynamic                             | yes        | yes        |         |
| Python      | safe       | dynamic                             | yes        | yes        |         |
| Ruby        | safe       | dynamic                             | yes        | yes        |         |
| Perl        |            | dynamic with optional static typing | yes        | yes        | yes     |

Figure 1

## Programming Languages Main Page

links :

- [PL main page](#)
- [PL definition](#)
- [PL types](#)
- [PL most populer](#)
- [comparison between programming languages](#)

this is the Programming Languages main page

where we start our project about Programming languages



Figure 2



```
1 <html>
2 <body>
3 <h1> Programming Languages Main Page </h1>
4
5 <h2> links : </h2>
6 <ul>
7 <li><a href="mainpage.html">PL main page</a></li>
8 <li><a href="definition.html">PL definition</a></li>
9 <li><a href="types.html">PL types</a></li>
10 <li><a href="mostpopuler.html">PL most populer</a></li>
11 <li><a href="comparison.html">comparison between programming languages</a></li>
12 </ul>
13 this is the Programming Languages main page
14 <h2></h2>
15 where we start our project about Programming languages
16 <h2></h2>
17 
18
19
20 </body>
21 </html>
```

Figure3

```
1 <html>
2 <body>
3 <h1> Programming Languages Types Page </h1>
4
5 <h2> links : </h2>
6 <ul>
7 <li><a href="mainpage.html">PL main page</a></li>
8 <li><a href="definition.html">PL definition</a></li>
9 <li><a href="types.html">PL types</a></li>
10 <li><a href="mostpopuler.html">PL most populer</a></li>
11 <li><a href="comparison.html">comparison between programming languages</a></li>
12 </ul>
13
14 <h2> types : </h2>
15 <ul>
16 <li>Python</li>
17 <li>ALGOL</li>
18 <li>JavaScript</li>
19 <li>Haskell</li>
20 <li>Html</li>
21 <li>SQL</li>
22 <li>BASIC</li>
23 <li>PHP</li>
24 <li>Java</li>
25 <li>C++</li>
26 <li>Pascal</li>
27 </ul>
28
29
30 </body>
31 </html>
```

Figure 4



```
1 <html>
2 <body>
3 <h1> Programming Languages Main Page </h1>
4
5 <h2> links : </h2>
6 <ul>
7 <li><a href="mainpage.html">PL main page</a></li>
8 <li><a href="definition.html">PL definition</a></li>
9 <li><a href="types.html">PL types</a></li>
10 <li><a href="mostpopuler.html">PL most populer</a></li>
11 <li><a href="comparison.html">comparison between programming languages</a></li>
12 </ul>
13 <h2>The most populer programming languages</h2>
14
15 
16
17 </body>
18 </html>
```

Figure 5