Faculty of engineering - Shoubra
Benha University

Report of Programming Languages Project

Name: *Tarek Mohamed Mohamed Elsayed Hassan*

B.N: *431*

Topic: *Programming Languages*

Date: *May 15, 2020*

Repository URL*: https://github.com/jrtareq/html_project*

Project URL on Github: https://jrtareq.github.io/html_project/

Application Brief:

It is not something surprising that programmers have risen to create something new in this age. With the creating of internet, we know there would be something new. Because of programmers, we could even use computer apps without the internet access. In this age, it is really a great help for the novice to be knowing something new in their life even without the access of internet which is always payable. Without programming, we would always be carrying with us our computer whatever it is wherever we go because internet access is a total need.

Screenshots:

Programming Languages
<Hello World/>

HOME   CLASSIFICATION   POPULAR   COMPANIES   SALARIES

Programming is the hidden power of the future, isn't it?

The most vital ability to find out in today's world is to grasp the way to write a malicious program. Today, computers have entered in nearly each business. Be it the autopilot in associate craft or digital meter in your bike, computers in varied forms surround U.S.. Computers area unit extraordinarily helpful for a company to rescale well. Gone area unit the times of pen and paper. Today, so as to store and access your data, you completely would like computers.

The programming and developer communities area unit rising at a rate quicker than ever before. varied new programming languages area unit developing that area unit suited to totally different classes of developers (beginners, intermediate, and experts) in addition as for various use cases (web application, mobile applications, game development, distributed system, etc).

so what is programming language ?

A programming language defines a set of instructions that are compiled together to perform a specific task by the CPU (Central Processing Unit). The programming language mainly refers to high-level

Latest News

python is most popular than ever

Despite a rocky transition from Python 2 to Python 3, developers are still flocking to the programming language.
Read more

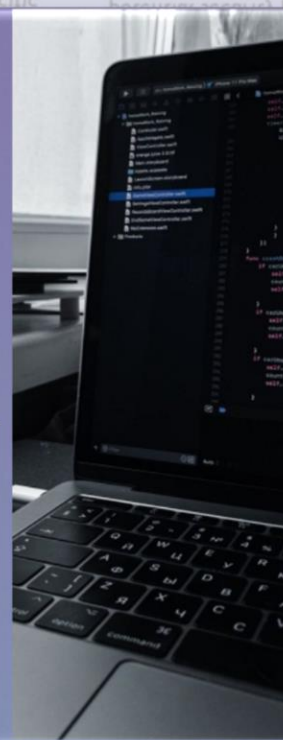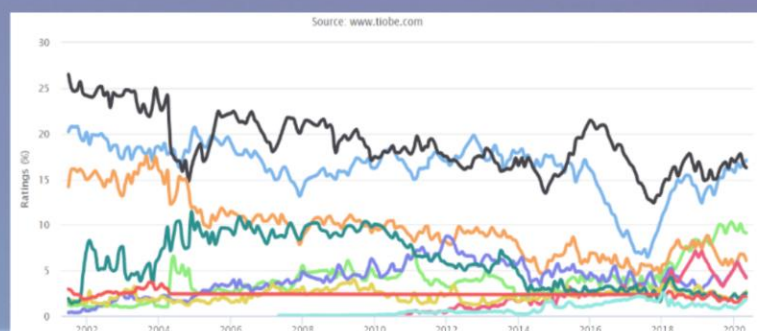**Github takes aim at open source software vulnerabilities**

GitHub Advanced Security will help automatically spot potential security problems in the world's biggest open source

Popular Programming Languages

Computer programming languages allow us to give 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." Translating programming language into binary is known as "compiling." Each language, from C Language to Python, has its own distinct features, though many times there are commonalities between programming languages.
These languages allow computers to quickly and efficiently process large and complex swaths of information. For example, if a person is given a list of randomized numbers ranging from one to ten thousand and is asked to place them in ascending order, chances are that it will take a sizable amount of time and include some errors.
There are dozens of programming languages used in the industry today. We've compiled overviews of the 5 most important, relevant and in-demand of these languages below. (ref by :Computerscience)

Source: www.tiobe.com

3-Java Script

JS

JavaScript is a client-side programming language that runs inside a client browser and processes commands on a computer rather than a server. It is commonly placed into an HTML or ASP file. Despite its name, JavaScript is not related to Java.

WHO USES IT?
Professions and Industries:
JavaScript developers, Web developers, software engineers
Used by employers in Information Technology, Engineering, Design, Marketing, Finance and Healthcare
Major Organizations: WordPress, Soundcloud, Khan Academy, Linkedin, Groupon, Yahoo and many others
Specializations and Industries Where JavaScript is Used Most: Front End Website Development, Gaming Development

4-C

C

C Language is a structure-oriented, middle-level programming language mostly used to develop low-level applications.

Advantages of a high-level language

1-The high-level language is easy to read, write, and maintain as it is written in English like words.
2-The high-level languages are designed to overcome the limitation of low-level language, i.e., portability. The high-level language is portable; i.e., these languages are machine-independent.

Differences between Low-Level language and High-Level language

Low-level language	High-Level Languages
It is a machine-friendly language, i.e., the computer understands the machine language, which is represented in 0 or 1.	It is a user-friendly language as this language is written in simple English words, which can be easily understood by humans.
The low-level language takes more time to execute.	It executes at a faster pace
It requires the assembler to convert the assembly code into machine code.	It requires the compiler to convert the high-level language instructions into machine code.
The machine code cannot run on all machines, so it is not a portable language.	The high-level code can run all the platforms, so it is a portable language./td>
It is memory efficient.	It is less memory efficient.
Debugging and maintenance are not easier in a low-level language.	Debugging and maintenance are easier in a high-level language.

(ref by : javaTpoint])

administrators, embedded software engineers
Used by employers in Information Technology, Engineering, Management, Healthcare and Professional Services
Major Organizations: Microsoft, Apple, Oracle, Cisco, Raytheon
Specializations and Industries Where C Language is Used Most: Embedded Systems, Systems Programming, Artificial Intelligence, Industrial Automation, Computer Graphics, Space Research, Image Processing and Game Programming

5-C#

C#

Pronounced C-sharp (not C-hashtag), C# is a multi-paradigm programming language that features strong typing, imperative, declarative, functional, generic, object-oriented and component-oriented disciplines.

WHO USES IT?
Professions and Industries:
C# developers, automation test engineers, software engineers, senior .net Web developers
Used by employers in Information Technology, Engineering, Design, Professional Services, Management and Quality Control
Major Organizations: Microsoft Intel, Hewlett Packard
Specializations: Windows-based platforms

Beginner Programmer Salary

Even though entry-level programmers make the least amount of money in the field, their salaries can still be considered more than decent. Just HOW decent, you may ask? Well, according to ZipRecruiter , the average computer programmer starting salary turns out to be around $52,000 per year. This equates to be a bit more than $4300 per month

Average Salary of Entry Level Programmer Jobs

$20,000   National Average $80,500

$51,789/year

National | Kaunas, LT   View as table

Given this information,it now becomes quite obvious why people say that even the computer programmer starting salary is something that should be strived for. If you keep in mind that the average salary in the US is somewhere around the $3700 per month mark, then programming suddenly does seem like an amazing opportunity to earn more.

Useful Links to learn programming

- codecademy
- Udacity

Some of most popular software companies:

1-Google

Google LLC is an American multinational technology company that specializes in Internet-related services and products, which include online advertising technologies, a search engine, cloud computing, software, and hardware.
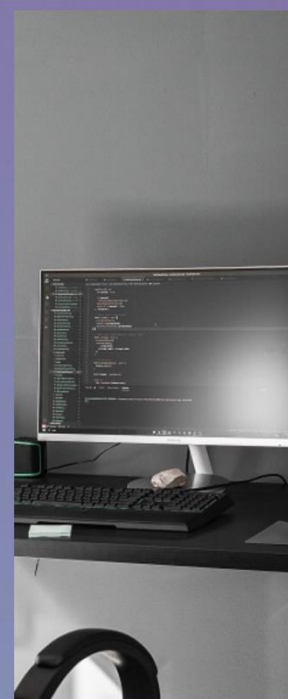
2-Microsoft

Microsoft Corporation is an American multinational technology company with headquarters in Redmond, Washington. It develops, manufactures, licenses, supports, and sells computer software, consumer electronics, personal computers, and related services.

3-Adobe

Adobe Inc., known until October 3, 2018 as Adobe Systems Incorporated, is an American multinational computer software company headquartered in San Jose, California. It has historically focused upon the creation of multimedia and creativity software products, with a more recent foray towards digital marketing software

Useful Links to learn

Screenshots of Source Code:

```html
    <div class="sidebar">
        <h3>Latest News</h3>
        <h4>python is most popular than ever</h4>
        <p>Despite a rocky transition from Python 2 to Python 3, developers are still flocking to the programming language.<br /><a href="https://www
        <p></p>
        <h4>Github takes aim at open source software vulnerabilities</h4>

        <p>GitHub Advanced Security will help automatically spot potential security problems in the world's biggest open source platform.<br /><a hre
        <h3>Useful Links to learn programming</h3>
        <ul>
            <li><a href="https://www.codecademy.com/">codecademy</a></li>
            <li><a href="https://www.udacity.com/">Udacity</a></li>
            <li><a href="https://www.hackerrank.com/">Hacker rank</a></li>
            <li><a href="https://www.w3schools.com/">w3schools</a></li>
        </ul>
    </div>
```

```html
<hr />
<p>
    <strong>4-C</strong><br />
    <span><img src="style/icons/c.png" width="100" height="100" /> </span><br />
    C Language is a structure-oriented, middle-level programming language mostly used to develop low-level applications.
    <br /><br />
    <strong>WHO USES IT?</strong>
    <br />Professions and Industries:
    <br /> Software developers, computer engineers, business and systems analysts, IT and Web content administrators, embedded software engineers
    <br /> Used by employers in Information Technology, Engineering, Management, Healthcare and Professional Services
    <br /> Major Organizations: Microsoft, Apple, Oracle, Cisco, Raytheon
    <br /> Specializations and Industries Where C Language is Used Most: Embedded Systems, Systems Programming, Artificial Intelligence, Industri
</p>
<hr />
```

```html
        <p>
            <strong>5-C#</strong><br />
            <span><img src="style/icons/csh.png" width="100" height="100" /> </span><br />
            Pronounced C-sharp (not C-hashtag), C# is a multi-paradigm programming language that features strong typing, imperative, declarative, functio
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            <br />Used by employers in Information Technology, Engineering, Design, Professional Services, Management and Quality Control
            <br />Major Organizations: Microsoft Intel, Hewlett Packard
            <br />Specializations: Windows-based platforms
        </p>
    </div>
</div>
<div id="footer">
    designed by Tarek Mohamed &copy; Programming Languages | tarek195482@feng.bu.edu.eg | +201001742075
</div>
</div>
```
No issues found   Ln: 7   Ch: 85   SPC

```html
    <h2 style="color : black">Differences between Low-Level language and High-Level language</h2>
<table style="width:100%; border-spacing:0;">
  <tr><th>Low-level language</th><th>High-Level Languages</th></tr>
  <tr><td>It is a machine-friendly language, i.e., the computer understands the machine language, which is represented in 0 or 1.</td><td>It is a user
  <tr><td>The low-level language takes more time to execute.</td><td>It executes at a faster pace</td></tr>
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  <tr><td>It is memory efficient.</td><td>It is less memory efficient.</td></tr>
  <tr><td>Debugging and maintenance are not easier in a low-level language.</td><td>Debugging and maintenance are easier in a high-level language.</t
</table>
  <p>(ref by : <a href="https://www.javatpoint.com/classification-of-programming-languages">javaTpoint</a> })</p>
```

```html
<head>
    <title>Programming Languages</title>
    <meta name="description" content="programming languages" />
    <meta name="keywords" content="programming languages,java,php,html,c, kotlin" />
    <link rel="stylesheet" type="text/css" href="style/style.css" title="style" />
</head>
```

```html
<div class="sidebar">
    <h3>Latest News</h3>
    <h4>python is most popular than ever</h4>
    <p>Despite a rocky transition from Python 2 to Python 3, developers are still flocking to the programming language.<br /><a href="https://www
    <p></p>
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    <ul>
        <li><a href="https://www.codecademy.com/">codecademy</a></li>
        <li><a href="https://www.udacity.com/">Udacity</a></li>
        <li><a href="https://www.hackerrank.com/">Hacker rank</a></li>
        <li><a href="https://www.w3schools.com/">w3schools</a></li>
    </ul>
</div>
```

```html
<div id="header">
    <div id="logo">
        <div id="logo_text">
            <h1><a style="color :aliceblue" href="index.html">Programming<span class="logo_colour">Languages</span></a></h1>
            <h2 style="color :aquamarine">&#60;Hello World/&#62;</h2>
        </div>
    </div>
    <div id="menubar">
        <ul id="menu">
            <li><a href="index.html">Home</a></li>

            <li><a href="classification.html">Classification</a></li>
            <li><a href="popular.html">popular</a></li>
            <li class="selected"><a href="companies.html">companies</a></li>
            <li><a href="salaries.html">salaries</a></li>
        </ul>
    </div>
</div>
```

```html
<div id="content">

    <h1>Programming is the hidden power of the future, isn't it?</h1>
    <p>The most vital ability to find out in today's world is to grasp the way to write a malicious program. Today, computers have entered in near
    <p>The programming and developer communities area unit rising at a rate quicker than ever before. varied new programming languages area unit
    <h3>so what is programming language ?</h3>
    <p>A programming language defines a set of instructions that are compiled together to perform a specific task by the CPU (Central Processing

    <h3>what is the importance of programming ?</h3>
    <p>Without programmers writing programs telling computers and alternative technological devices what to try to to, they might virtually be do
    <img src="style/ln.png" alt="programming languages" />
    <h3 style="color: black">Here is some of most popular languages:</h3>
    <ul>
        <li>python</li>
        <li>java</li>
        <li>c/c++</li>
```