Identify The Different Data Types

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Introduction:

• A data type, in programming is a classification that specifies which type of value a variable has and what type of mathematical, relational or logical operations can be applied to it without causing an error.

• A string, for example is a data type that is used to classify text and an integer is a data type used to classify whole numbers.
What is Data Type?

• The data type defines which operations can safely be performed to create, transform and use the variable in another computation.

• When a program language requires a variable to only be used in ways that respect its data type, that language is said to be strongly typed.

• When a programming language allows a variable of one data type to be used as if it were a value of another data type, the language is said to be weakly typed.
## Different Data Types

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Used For</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>Alphanumeric characters</td>
<td>hello world, Alice, Bob123</td>
</tr>
<tr>
<td>Integer</td>
<td>Whole numbers</td>
<td>999, 12, 7</td>
</tr>
<tr>
<td>Float (floating point)</td>
<td>Number with a decimal point</td>
<td>00.13, 9.06, 3.15</td>
</tr>
<tr>
<td>Character</td>
<td>Encoding text numerically</td>
<td>97 (in ASCII, 97 is a lower case 'a')</td>
</tr>
<tr>
<td>Boolean</td>
<td>Representing logical values</td>
<td>TRUE, FALSE</td>
</tr>
</tbody>
</table>
Conclusion

• Data types are the type of data or the category of data which we will be using for the program.

• It can be anything starting from the integer data type to Boolean data type for true and false, they tell the type of the data which is going to be inserted or used.
References

Thank You For You’re Attention!

Any questions?