PASCAL - CONSTANTS

http://www.tutorialspoint.com/pascal/pascal constants.htm

Copyright © tutorialspoint.com

A constant is an entity that remains unchanged during program execution. Pascal allows only constants of the following types to be declared —

- Ordinal types
- · Set types
- Pointer types buttheonlyallowedvalueisNil.
- Real types
- Char
- String

Declaring Constants

Syntax for declaring constants is as follows -

```
const
identifier = constant_value;
```

The following table provides examples of some valid constant declarations –

Constant Type	Examples
Ordinal Integer type constant	valid_age = 21;
Set type constant	Vowels = set of A, E, I, O, U ;
Pointer type constant	P = NIL;
Real type constant	e = 2.7182818; velocity_light = 3.0E+10;
Character type constant	Operator = '+';
String type constant	<pre>president = 'Johnny Depp';</pre>

The following example illustrates the concept -

```
program const_circle (input,output);
const
PI = 3.141592654;

var
r, d, c : real; {variable declaration: radius, dia, circumference}

begin
    writeln('Enter the radius of the circle');
    readln(r);

    d := 2 * r;
    c := PI * d;
    writeln('The circumference of the circle is ',c:7:2);
end.
```

When the above code is compiled and executed, it produces the following result –

Enter the radius of the circle 23 The circumference of the circle is 144.51

Observe the formatting in the output statement of the program. The variable c is to be formatted with total number of digits 7 and 2 digits after the decimal sign. Pascal allows such output formatting with the numerical variables.

Loading [MathJax]/jax/output/HTML-CSS/jax.js