Devbhasha Keywords Reference

This document provides a comprehensive reference of all keywords in the Devbhasha programming language, including their meanings, etymology from Sanskrit/Hindi, usage examples, and specific syntax patterns.

Core Language Keywords

Keyword	Meaning	Etymology	Usage
dharma	Program declaration	Sanskrit: धर्म (duty, virtue, purpose)	`dharma ProgramName { }`
samapti	End of program	Sanskrit: समाप्ति (conclusion, end)	`} samapti`
prakruti	Variable declaration	Sanskrit: प्रकृति (nature, character)	`prakruti dataType varName = value;`
nitya	Constant declaration	Sanskrit: नित्य (eternal, permanent)	`nitya dataType constName = value;`
lautana	Return statement	Hindi: लौटाना (to return)	`lautana value;`
nava	New object instantiation	Sanskrit: नव (new)	`nava ClassName(params)`

Data Types

Keyword	Meaning	Etymology	Example
satya	Boolean type	Sanskrit: सत्य (truth)	`prakruti satya isActive = haan;`
sankhya	Integer type	Sanskrit: संख्या (number)	`prakruti sankhya count = 10;`
dashamika	Float/decimal type	Sanskrit: दशमिक (decimal)	`prakruti dashamika pi = 3.14;`
akshara	Character type	Sanskrit: अक्षर (letter, character)	`prakruti akshara grade = 'A';`
shabda	String type	Sanskrit: शब्द (word, sound)	`prakruti shabda message = "Namaste";`
shunya	Null/void type	Sanskrit: शून्य (zero, void)	`prakruti shunya result = shunya;`
kosha	Map/dictionary type	Sanskrit: कोश (treasury, dictionary)	`prakruti kosha<shabda, sankhya> scores;`

Boolean Values

Keyword	Meaning	Etymology	Example
haan	True	Hindi: हां (yes)	prakruti satya flag = haan;
nahi	False	Hindi: नहीं (no)	prakruti satya flag = nahi;

Control Flow Keywords

Keyword	Meaning	Etymology	Usage
yadi	If statement	Sanskrit: यदि (if)	yadi (condition) { }
athava	Else if statement	Sanskrit: अथवा (or, otherwise)	athava (condition) { }
anyatha	Else statement	Sanskrit: अन्यथा (otherwise)	anyatha { }
chakra	For loop	Sanskrit: चक्र (wheel, cycle)	chakra (init; cond; incr) { }
yavat	While condition	Sanskrit: यावत् (as long as)	yavat (condition) { }
kuru	Do (in do-while loop)	Sanskrit: कुरु (do)	kuru { } yavat (condition);
virama	Break statement	Sanskrit: विराम (stop, pause)	virama;
agre	Continue statement	Hindi: आगे (forward, ahead)	agre;
vikalpa	Switch statement	Hindi: विकल्प (option, alternative)	vikalpa (expr) { }
sthiti	Case in switch	Sanskrit: स्थिति (state, position)	sthiti value:
apavada	Default case	Sanskrit: अपवाद (exception)	apavada:

Function and Method Keywords

Keyword	Meaning	Etymology	Usage
karma	Function declaration	Sanskrit: कर्म (action, work)	karma name(params) { }
varga	Class declaration	Sanskrit: वर्ग (class, category)	varga ClassName { }
nirmata	Constructor	Sanskrit: निर्माता (creator, maker)	nirmata(params) { }
prachina	Extends/inherits from	Sanskrit: प्राचीन (ancient, former)	varga Child prachina Parent { }

Input/Output Keywords

Keyword	Meaning	Etymology	Usage
pathana	Read input	Sanskrit: पठन (reading)	var = pathana();
lekha	Print output	Sanskrit: लेख (writing)	lekha(message);

Error Handling Keywords

Keyword	Meaning	Etymology	Usage
prayatna	Try block	Sanskrit: प्रयत्न (attempt, effort)	prayatna { }
dosha	Catch block	Sanskrit: दोष (fault, error)	dosha (ErrorType e) { }
antima	Finally block	Sanskrit: अंतिम (final, last)	antima { }

Special Reference Keywords

Keyword	Meaning	Etymology	Usage
swayam	Self/this keyword	Sanskrit: स्वयं (self, oneself)	swayam.property
param	Super/parent reference	Sanskrit: परम (supreme, beyond)	param.method()

Collection Operation Keywords

Keyword	Meaning	Etymology	Usage
jodna	Add to collection	Hindi: जोड़ना (to add)	collection.jodna(item);
hatana	Remove from collection	Hindi: हटाना (to remove)	collection.hatana(item);
khojana	Find in collection	Hindi: खोजना (to search)	collection.khojana(item);
ganana	Count elements	Sanskrit: गणना (counting)	collection.ganana();

Import/Export Keywords

Keyword	Meaning	Etymology	Usage
aahvana	Import module	Sanskrit: आह्वान (invocation, call)	aahvana ModuleName;
pradana	Export module	Sanskrit: प्रदान (giving, offering)	pradana karma func() { }

System Operation Keywords

Keyword	Meaning	Etymology	Usage
nidra	Sleep/pause execution	Sanskrit: निद्रा (sleep)	nidra(milliseconds);
samaptikaro	Exit program	Sanskrit: समाप्तिकरो (ending)	samaptikaro(code);

Operator Keywords

Keyword	Meaning	Etymology	Symbol Equivalent
yoga	Addition	Sanskrit: योग (union, addition)	+
viyoga	Subtraction	Sanskrit: वियोग (separation)	-
guna	Multiplication	Sanskrit: गुण (quality, multiply)	*
bhaga	Division	Sanskrit: भाग (division, part)	/
shesha	Modulus	Sanskrit: शेष (remainder)	%
vriddhi	Increment	Sanskrit: वृद्धि (increase, growth)	++
hrasa	Decrement	Sanskrit: ह्रास (decrease, reduction)	--
samana	Equal to	Sanskrit: समान (equal, same)	==
asamana	Not equal to	Sanskrit: असमान (unequal)	!=
adhika	Greater than	Sanskrit: अधिक (more, greater)	>
nyuna	Less than	Sanskrit: न्यून (less)	<
adhikasamana	Greater than or equal to	Sanskrit: अधिक समान (more or equal)	>=
nyunasamana	Less than or equal to	Sanskrit: न्यून समान (less or equal)	<=
cha	Logical AND	Sanskrit: च (and)	&&
va	Logical OR	Sanskrit: वा (or)	||
na	Logical NOT	Sanskrit: न (not)	!

Standard Library Module Names

Module Name	Purpose	Etymology
Ganita	Math functions	Sanskrit: गणित (mathematics)
Kala	Date and time functions	Sanskrit: काल (time)
Bhasha	String manipulation	Sanskrit: भाषा (language)
Sangraha	Collection utilities	Sanskrit: संग्रह (collection)
Vyavastha	System operations	Sanskrit: व्यवस्था (system, arrangement)

Standard Error Types

Error Type	Description	Etymology
`GanitaDosha`	Math error	Sanskrit: गणित दोष (mathematics error)
`VirodhaDosha`	Contradictory operation	Sanskrit: विरोध दोष (contradiction error)
`SangrahaDosha`	Collection operation error	Sanskrit: संग्रह दोष (collection error)
`PathanaDosha`	Input error	Sanskrit: पठन दोष (reading error)
`LekhaDosha`	Output error	Sanskrit: लेख दोष (writing error)
`VargaDosha`	Class or type error	Sanskrit: वर्ग दोष (class error)
`AnyaDosha`	Other error	Sanskrit: अन्य दोष (other error)

Example Program Using Multiple Keywords

```
// A simple program demonstrating various Devbhasha keywords

dharma DevaExample {
    // Variable declarations
    prakruti shabda greeting = "Namaste, World!";
    prakruti sankhya count = 5;

    // Output
    lekha(greeting);

    // Function call
    calculateSum(10, 20);

    // Conditional statement
    yadi (count > 3) {
        lekha("Count is greater than 3");
    } anyatha {
        lekha("Count is not greater than 3");
    }

    // Loop
    lekha("Counting down:");
    yavat (count > 0) {
        lekha(count);
        count--;
    }

    // Creating an object
    prakruti Deva indra = nava Deva("Indra", "Lightning");
    lekha(indra.getDescription());

    // Error handling
    prayatna {
        prakruti sankhya result = 10 / 0;
    } dosha (GanitaDosha error) {
        lekha("Math error occurred: " + error.message);
    } antima {
        lekha("Error handling complete");
    }
}
samapti

// Class definition
varga Deva {
    prakruti shabda name;
    prakruti shabda power;
```

```
    nirmata(shabda devaName, shabda devaPower) {
        swayam.name = devaName;
        swayam.power = devaPower;
    }

    karma shabda getDescription() {
        lautana swayam.name + " has the power of " + swayam.power;
    }
}


// Function definition
karma sankhya calculateSum(sankhya a, sankhya b) {
    prakruti sankhya result = a + b;
    lekha("Sum: " + result);
    lautana result;
}
```

Keyword Pronunciation Guide

Keyword	Pronunciation (Approximate English)
dharma	dhur-muh
samapti	suh-maap-tee
prakruti	pruh-kroo-tee
nitya	nit-yuh
lautana	low-taa-naa
nava	nuh-vuh
satya	sut-yuh
sankhya	sunk-hyaa
dashamika	duh-shuh-mik-uh
akshara	uk-shuh-ruh
shabda	shub-duh
shunya	shoon-yuh
haan	haan (like "harm" without "rm")
nahi	nuh-hee
yadi	yuh-dee
anyatha	un-yuh-thaa
chakra	chuk-ruh
yavat	yaa-vut
karma	kur-muh
varga	vur-guh
lekha	lay-khuh
pathana	puh-thuh-nuh

This reference document serves as the definitive guide to all keywords in the Devbhasha programming language. Developers can consult this document to understand the meaning, usage, and cultural significance of each keyword.