

variables

```
num = 44 //assignments
const k=34.56 //constants
global lives = 3 //global
```

input/output

```
pwd = input("Please enter a
password") //input
print("You have logged in
successfully") //output
```

casting

```
str(127) //to string
int("45 ") //to integer
float(" 7.4 5") //to float
real(9 2.34) //to real
bool("False") //to boolean
```

commenting

```
// interesting comment
// another interesting comment
```

selection

```
//IF-THEN-ELSE
if hour < 12 then
    print("Good Morning!")
elseif (hour < 18) then
    print("Good Afternoon!")
else
    print("Good Evening!")
endif
//SWITCH
```

selection (cont)

```
> switch day:
    case 6:
        print("Saturday")
    case 7:
        print("Sunday")
    default:
        print("Weekday")
endswitch
```

Iteration

```
//FOR LOOP
for i = 0 to 9
    print ("i = " + i)
next i
//WHILE LOOP
while password != "Password123"
    password =
input("Guess again")
endwhile
//DO WHILE LOOP
do
    password =
input("Guess again")
while password != "Password123"
```

random numbers

```
i = random(1,9)
r = random(1.1, 7.5)
```

file handling

```
f = open("data.txt") //open
f.close() //close
f.readLine() //read line
f.writeLine("Hello") //write
line
while NOT f.endOfFile()
    print f.readLine()
endwhile //end of file
newFile("newdata.txt")
//create new file
```

arrays

```
array scores[5] //declaration
score[0] = 23 //assignment
len(score) //length
```

sub programs

```
//PROCEDURE
procedure sum(n1,n2)
    print(n1 + n2)
endprocedure
//FUNCTION
function sum(n1,n2)
    return(n1 + n2)
endfunction
//CALL A PROCEDURE
sum(8,9)
//CALL A FUNCTION
result = sum(8,9)
```



By hhhhannah (ghcytdckyc)

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operators

//COMPARISON OPERATORS

```
myAge == 36 //equal
lives != 0 //not equal
health < 1 //less
score > 0 //greater
marks <= 40 //less or equal
marks >= 80 //greater or equal
```

//ARITHMETIC OPERATORS

```
4 + 5 //add
9 - 6 //subtract
2 * 4 //multiply
5 ^ 3 //exponent
6 / 3 //divide
7 MOD 2 //modulus
8 DIV 3 //quotient
```

//LOGICAL OPERATORS

```
age > 18 AND age < 60
hour < 9 OR hour > 17
NOT day == "Sunday"
```

//STRING OPERATORS

```
name.length //string length
name.substring(2,4)
name.length(3)
name.substring(5) //substring
print(" hi" + name) //concatenation
name.upper
name.lower //case change
ASC(X)
CHR(75) //ASCII conversion
```



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