

OCR ERL Cheatsheet



Commenting

Comment

```
//my note to me
```

Variables

Assignment

```
myAge = 36
```

Constants

```
const pi = 3.14
```

Global Variables

```
global lives = 3
```

Casting

To String

```
str(36)
```

To Integer

```
int("13")
```

To Float

```
float("3.14")
```

To Real

```
real("3.14")
```

To Bool

```
bool("True")
```

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"
```

Input/Output

Input

```
pwd = input("Please enter a password")
```

Output

```
print("You have logged in succesfully")
```

Selection

If-Then-Else

```
if hour < 12 then  
    print("Good Morning!")  
elseif (hour < 18) then  
    print("Good Afternoon!")  
else  
    print("Good Evening!")  
endif
```

Switch

```
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"
```

String Operations

String Length

```
name.length
```

Substrings

```
name.substring(2, 4)  
name.left(3)  
name.right(5)
```

Concatenation

```
print("Hi" + name)
```

Change Case

```
name.upper  
name.lower
```

ASCII Conversion

```
ASC(X)  
CHR(75)
```

Arrays

Declaration

```
array score[5]  
array ages["Dan","Ali"]  
array users[4, 4]
```

Assignment

```
score[0] = 59  
users[1,3] = "Ninja01"
```

Length

```
len(score)
```

Random Numbers

Random Numbers

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

File Handling

Open

```
f = open("data.txt")
```

Close

```
f.close()
```

Read Line

```
f.readLine()
```

Write Line

```
f.writeLine("Hello")
```

End of File

```
while NOT f.endOfFile()  
    print f.readLine()  
endwhile
```

Create a New File

```
newFile("newdata.txt")
```

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)
```