

J277 OCR Exam Reference Language

```
//converting to another data type  
str(3) returns "3"  
int("3") returns 3  
float("3.14") returns 3.14  
real("4.52") returns 4.52  
bool("True") returns True
```

```
//taking a input from a user  
name = INPUT("Please enter your name")
```

```
//for loop (count controlled)  
FOR I = 0 to 7  
    PRINT("Hello")  
NEXT i  
//will print Hello 8 times
```

```
//while loop (condition controlled)  
WHILE answer != "computer"  
    answer = INPUT("What is the password?")  
ENDWHILE  
//will keep asking ^ till computer is entered
```

```
//do until loop (condition controlled)  
DO  
    Answer = INPUT("What is the password?")  
UNTIL answer == "computer"
```

```
//selection (if statement)  
if answer == "Yes" then  
    print("Correct")  
elseif answer == "No" then  
    print("Wrong")  
else  
    print("Error")  
endif
```

```
//case select or switch  
switch day :  
    case "Sat":  
        print("Saturday")  
    case "Sun":  
        print("Sunday")  
    default:  
        print("Weekday")  
endswitch
```

```
//arrays  
array colours[5]  
//Creates 1D array with 5 elements(index 0 to 4).  
array colours = ["Blue", "Pink", "Green", "Yellow", "Red"]  
//Arrays can be declared with values assigned.  
array gameboard[8,8] //Creates 2D array with 8 elements(index 0 to 7).  
colours[1] = "Purple" //changes Pink to Purple
```

```
//substrings  
subject = "ComputerScience"  
subject.length gives the value 15  
  
subject.substring(3,5) returns "puter"  
subject.left(4) returns "Comp"  
subject.right(3) returns "nce"  
subject.upper gives "COMPUTERSCIENCE"  
subject.lower gives "computerscience"
```

```
ASC(A) returns 65 (numerical)  
CHR(97) returns 'a' (char)  
  
print("hello" + " world") gives "hello world"
```

```
//file handling  
myFile = open("sample.txt")  
myFile.close()  
myFile.readLine() returns the next line in the file  
myFile.writeLine("Add new line")  
//Note that the line will be written to the END of the file.  
  
while NOT myFile.endOfFile()  
    print(myFile.readLine()) //read all the lines in the file  
endwhile  
  
newFile("myText.txt") //Creates a new text file called "myText"
```

```
//procedure dont return a value  
procedure multiply(num1, num2)  
    print(num1 * num2)  
endprocedure  
  
multiply(2,4) //would print 8  
//function returns a value  
function squared(number)  
    squared = number^2  
    return squared  
endfunction  
newValue = squared(4)  
print(newValue) //would print 16
```

```
//random  
myVariable = random(1,6)  
//Creates a random integer between 1 and 6 inclusive.
```