

CFGS ASIX

MP06 · UF02 · NF01

EXERCICIS DE PROCEDIMENTS I FUNCIONS

01. Programar un script que demani un número enter i mitjançant un procediment mostri el seu valor absolut per la pantalla.

```
' Absolut
' cscript //nologo exercici-01.vbs

Option Explicit

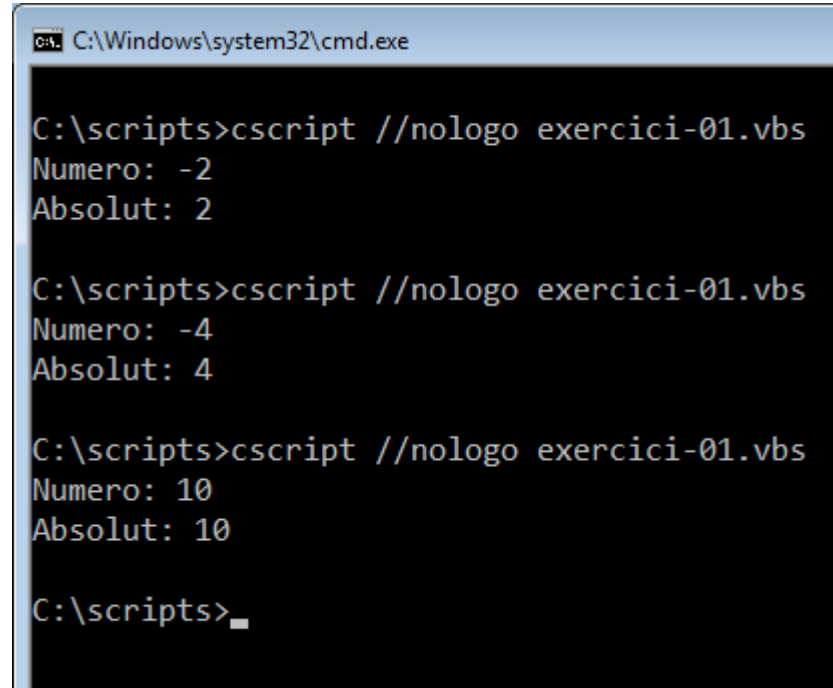
Dim Num, Res

Sub Absolut(Valor)
    Res=Abs(Valor)
    WScript.Stdout.WriteLine "Absolut: " & Res
End Sub

WScript.Stdout.Write "Numero: "
Num=Wscript.StdIn.ReadLine

Absolut Num

WScript.Quit
```



```
C:\Windows\system32\cmd.exe

C:\scripts>cscript //nologo exercici-01.vbs
Numero: -2
Absolut: 2

C:\scripts>cscript //nologo exercici-01.vbs
Numero: -4
Absolut: 4

C:\scripts>cscript //nologo exercici-01.vbs
Numero: 10
Absolut: 10

C:\scripts>
```

02. Programar un script que demani tres números enters i mitjançant un procediment mostri la seva suma per la pantalla.

```
' Suma
' cscript //nologo exercici-02.vbs

Option Explicit

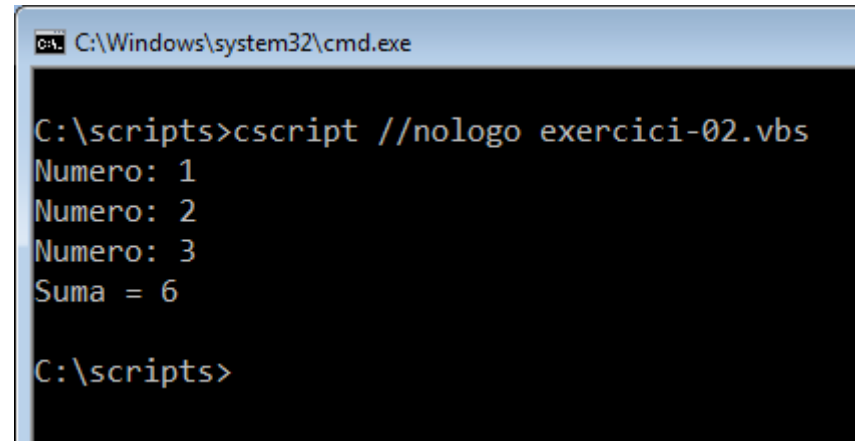
Dim I, Num(3), Res

Sub Suma(Valor1, Valor2, Valor3)
    Res=CInt(Valor1)+CInt(Valor2)+CInt(Valor3)
    WScript.StdOut.WriteLine "Suma = " & Res
End Sub

For I = 0 To 2
    WScript.StdOut.Write "Numero: "
    Num(I)=Wscript.StdIn.ReadLine
Next

Suma Num(0), Num(1), Num(2)

WScript.Quit
```



The screenshot shows a Windows command prompt window titled "C:\Windows\system32\cmd.exe". The prompt is at "C:\scripts>". The user has entered the command "cscript //nologo exercici-02.vbs". The output displayed is: "Numero: 1", "Numero: 2", "Numero: 3", and "Suma = 6". The prompt is now "C:\scripts>".

```
C:\Windows\system32\cmd.exe
C:\scripts>cscript //nologo exercici-02.vbs
Numero: 1
Numero: 2
Numero: 3
Suma = 6
C:\scripts>
```

03. Programar un script que demani un número enter i mitjançant un procediment mostri la seva taula de multiplicar.

```
' Taula de multiplicar
' cscript //nologo exercici-03.vbs

Option Explicit

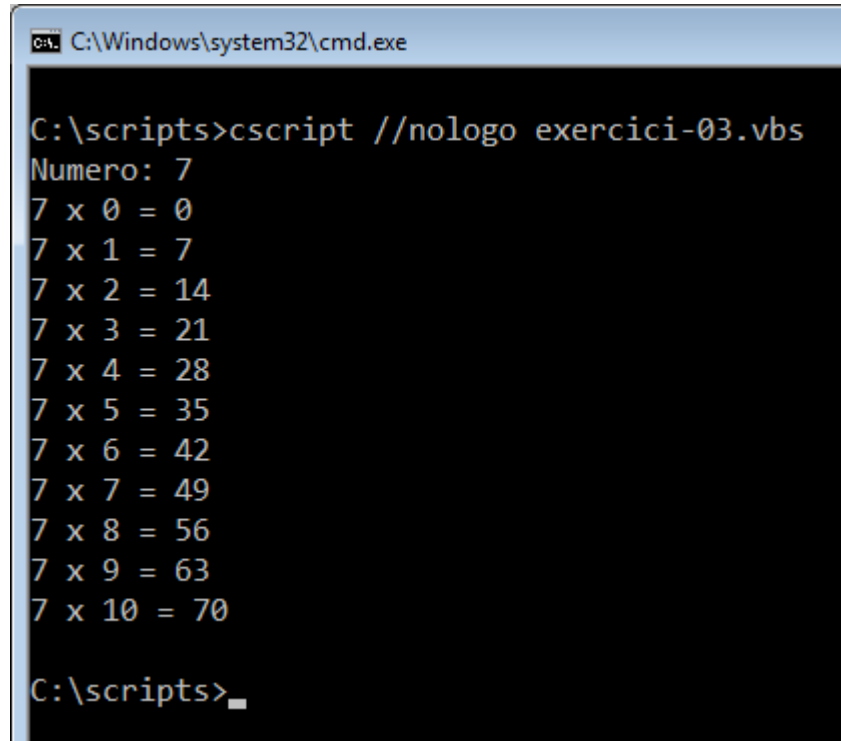
Dim Num, I

Sub TaulaDeMultiplicar(Valor)
    For I = 0 To 10
        WScript.Stdout.WriteLine Num & " x "
        & I & " = " & (Num*I)
    Next
End Sub

WScript.Stdout.Write "Numero: "
Num=Wscript.StdIn.ReadLine

TaulaDeMultiplicar Num

WScript.Quit
```



```
C:\Windows\system32\cmd.exe

C:\scripts>cscript //nologo exercici-03.vbs
Numero: 7
7 x 0 = 0
7 x 1 = 7
7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 7 = 49
7 x 8 = 56
7 x 9 = 63
7 x 10 = 70

C:\scripts>_
```

04. Crear una funció a la que se li passarà com a arguments dos números enters i una operació. La funció farà el càlcul i retornarà al programa principal el resultat. Atenció amb la operació de dividir per zero.

```
' Operacio  
' cscript //nologo exercici-04.vbs
```

```
Option Explicit
```

```
Dim Nu1, Nu2, Op, Res
```

```
Function Calcular(Val1,Val2,Oper)
```

```
    Select Case (Oper)  
        Case "+"  
            Calcular = CInt(Val1) + CInt(Val2)  
        Case "-"  
            Calcular = CInt(Val1) - CInt(Val2)  
        Case "*"  
            Calcular = CInt(Val1) * CInt(Val2)  
        Case "/"  
            If (Val2 <> 0) Then  
                Calcular = CInt(Val1) / CInt(Val2)  
            Else  
                Calcular = "Divisió per 0"  
            End if  
    End Select
```

```
End Function
```

```
WScript.StdOut.Write "Numero: "  
Nu1=WScript.StdIn.Readline  
WScript.StdOut.Write "Numero: "  
Nu2=WScript.StdIn.Readline  
WScript.StdOut.Write "Operacio: "  
Op=WScript.StdIn.Readline
```

```
Res = Calcular (Nu1, Nu2, Op)
```

```
WScript.StdOut.WriteLine "Resultat = " & Res
```

```
WScript.Quit
```

C:\Windows\system32\cmd.exe

```
C:\scripts>cscript //nologo exercici-04.vbs
```

Numero: 1

Numero: 3

Operacio: +

Resultat = 4

```
C:\scripts>cscript //nologo exercici-04.vbs
```

Numero: 4

Numero: 5

Operacio: -

Resultat = -1

```
C:\scripts>cscript //nologo exercici-04.vbs
```

Numero: 2

Numero: 4

Operacio: *

Resultat = 8

```
C:\scripts>cscript //nologo exercici-04.vbs
```

Numero: 20

Numero: 5

Operacio: /

Resultat = 4

```
C:\scripts>_
```

05. Crear una funció a la que se li passarà com a argument una cadena de caràcters i retornarà al programa principal quantes vocals hi ha.

```
' Vocals  
' cscript //nologo exercici-05.vbs
```

Option Explicit

Dim Cadena, Resultat

Function ComptarVocals(Cad)

Dim N, NumVoc

NumVoc=0

For N = 1 To Len(Cad)

If (Lcase(Mid(Cad,N,1))="a" Or Lcase(Mid(Cad,N,1))="e" Or Lcase(Mid(Cad,N,1))="i" Or Lcase(Mid(Cad,N,1))="o" Or Lcase(Mid(Cad,N,1))="u") Then
NumVoc=NumVoc+1

End If

Next

ComptarVocals=NumVoc

End Function

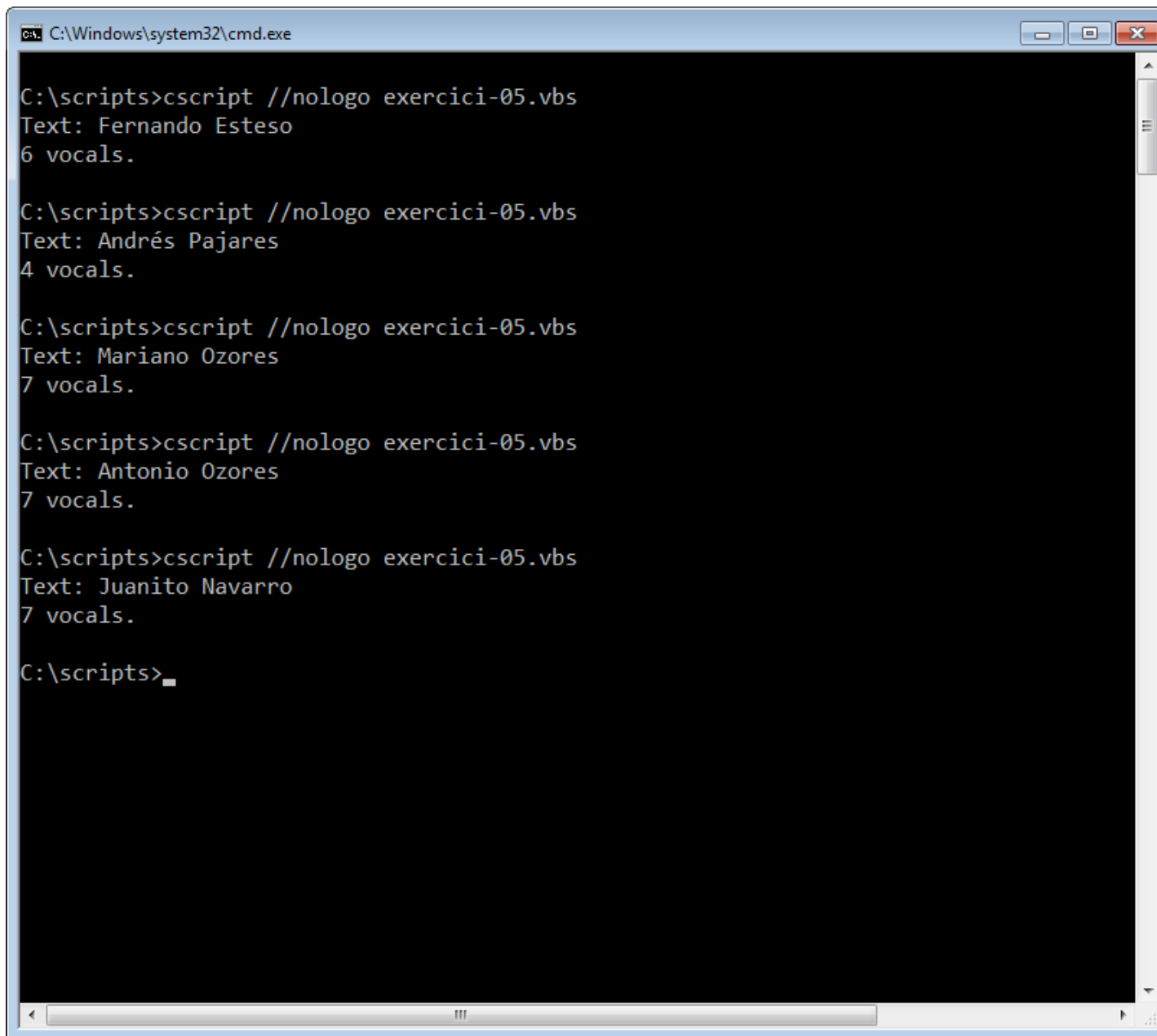
WScript.StdOut.Write "Text: "

Cadena=WScript.StdIn.ReadLine

Resultat = ComptarVocals(Cadena)

WScript.StdOut.WriteLine Resultat & " vocals."

WScript.Quit



A screenshot of a Windows command prompt window. The title bar at the top reads "C:\Windows\system32\cmd.exe". The window has standard Windows window controls (minimize, maximize, close) on the right. The command prompt shows the following sequence of commands and output:

```
C:\scripts>cscript //nologo ejercici-05.vbs
Text: Fernando Esteso
6 vocals.

C:\scripts>cscript //nologo ejercici-05.vbs
Text: Andrés Pajares
4 vocals.

C:\scripts>cscript //nologo ejercici-05.vbs
Text: Mariano Ozores
7 vocals.

C:\scripts>cscript //nologo ejercici-05.vbs
Text: Antonio Ozores
7 vocals.

C:\scripts>cscript //nologo ejercici-05.vbs
Text: Juanito Navarro
7 vocals.

C:\scripts>
```

The output for each command shows the text processed by the script and the count of vowels. The window has a scrollbar on the right and a status bar at the bottom.

06. Crear una funció a la que se li passarà com a argument una frase i retornarà al programa principal quantes paraules conté.

```
' Paraules
' cscript //nologo exercici-06.vbs

Option Explicit

Dim Cadena, Resultat

Function ComptarParaules(Cad)
    Dim N, NumEsp

    NumEsp=0

    For N = 1 To Len(Cad)
        If Mid(Cad,N,1)=" " Then
            NumEsp=NumEsp+1
        End If
    Next

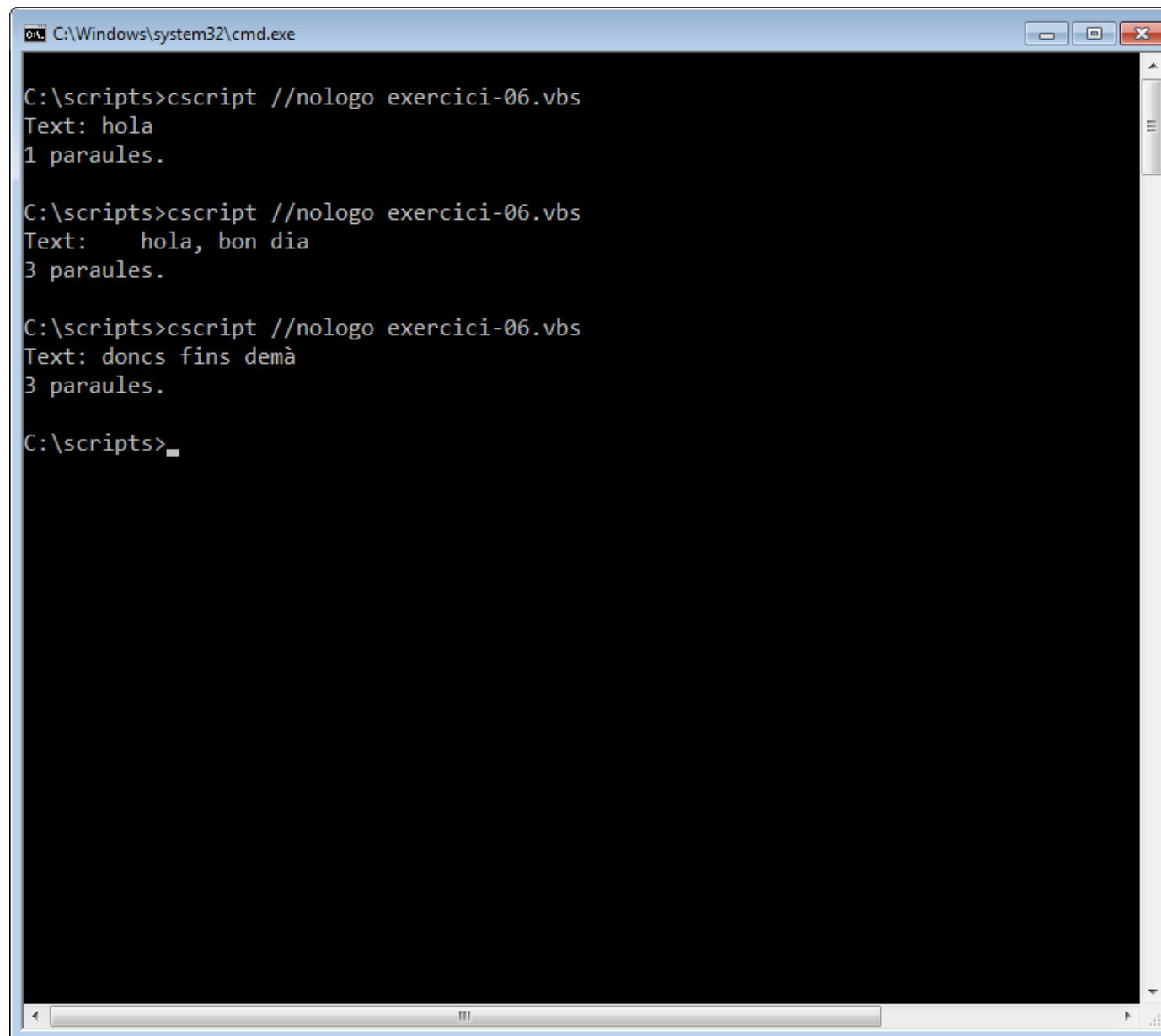
    ComptarParaules=NumEsp+1
End Function

WScript.Stdout.Write "Text: "
Cadena=Trim(WScript.StdIn.ReadLine)

If (Len(Cadena)>1) Then
    Resultat=ComptarParaules(Cadena)
Else
    Resultat=0
End If

WScript.Stdout.WriteLine Resultat & " paraules."

WScript.Quit
```



A screenshot of a Windows command prompt window titled "C:\Windows\system32\cmd.exe". The window has a blue title bar and standard Windows window controls (minimize, maximize, close) in the top right corner. The command prompt shows three separate executions of the command `cscript //nologo exercici-06.vbs` from the `C:\scripts` directory. Each execution displays the output of the script, which includes a text string and a word count. The first execution shows "Text: hola" and "1 paraules.". The second execution shows "Text: hola, bon dia" and "3 paraules.". The third execution shows "Text: doncs fins demà" and "3 paraules.". The prompt is currently at `C:\scripts>` with a cursor.

```
C:\Windows\system32\cmd.exe

C:\scripts>cscript //nologo exercici-06.vbs
Text: hola
1 paraules.

C:\scripts>cscript //nologo exercici-06.vbs
Text: hola, bon dia
3 paraules.

C:\scripts>cscript //nologo exercici-06.vbs
Text: doncs fins demà
3 paraules.

C:\scripts>
```