

msantos.sdf.org/G12/Term3/pseudocode-2.md

PSEUDO-CODE STATEMENTS

```
SubjectHighest <-- 0
SubjectLowest <-- 100
SubjectTotal <-- 0
```

CASE Test OF

```
1 : SubjectName <-- "Math"
2 : SubjectName <-- "Science"
3 : SubjectName <-- "English"
4 : SubjectName <-- "IT"
```

ENDCASE

```
FOR StudentNumber <-- 1 TO 600
```

REPEAT

```
PRINT "ENTER Student ", StudentNumber, "'s Mark for "; SubjectName
INPUT Mark
```

```
UNTIL Mark < 101 AND Mark > -1
```

```
IF Mark < OverallLowest THEN OverallLowest <-- Mark
IF Mark < SubjectLowest THEN SubjectLowest <-- Mark
IF Mark < OverallHighest THEN OverallHighest <-- Mark
IF Mark < SubjectHighest THEN SubjectHighest <-- Mark
```

```
OverallTotal <-- OverallTotal + Mark
```

```
SubjectTotal <-- SubjectTotal + Mark
```

NEXT

1) Assignment: OverallHighest ← 0

2) For-loops: FOR Counter ← 1 TO 10
"loop statements"

3) Repeat-until loop. NEXT
REPEAT

"loop statements"
UNTIL condition-is-true

4) Inputs & Output:

INPUT variable-name
PRINT message/variable to output
(OUTPUT)

5) CASE-Construct:

CASE variable **OF**
value 1 : statements to do if variable = value 1
value 2 : statements to do if variable = value 2
value N : statements to do if variable = value N
ENDCASE

```
SubjectHighest <-- 0
SubjectLowest <-- 100
SubjectTotal <-- 0
```

```
CASE Test OF
```

```
1 : SubjectName <-- "Math"
2 : SubjectName <-- "Science"
3 : SubjectName <-- "English"
4 : SubjectName <-- "IT"
```

```
ENDCASE
```

```
FOR StudentNumber <-- 1 TO 600
  REPEAT
```

```
    PRINT "ENTER Student ", StudentNumber, "'s Mark for ", SubjectName
    INPUT Mark
```

```
  UNTIL Mark < 101 AND Mark > -1
```

```
  IF Mark < OverallLowest THEN OverallLowest <-- Mark
  IF Mark < SubjectLowest THEN SubjectLowest <-- Mark
  IF Mark < OverallHighest THEN OverallHighest <-- Mark
  IF Mark < SubjectHighest THEN SubjectHighest <-- Mark
  OverallTotal <-- OverallTotal + Mark
  SubjectTotal <-- SubjectTotal + Mark
```

```
NEXT
```

6) IF-THEN-ELSE

IF Condition-is-true

THEN Statements if Cond true

ELSE Statements if Cond false

```
SubjectHighest <-- 0
SubjectLowest  <-- 100
SubjectTotal   <-- 0
```

CASE Test OF

```
1 : SubjectName <-- "Math"
2 : SubjectName <-- "Science"
3 : SubjectName <-- "English"
4 : SubjectName <-- "IT"
```

ENDCASE

FOR StudentNumber <-- 1 TO 600

REPEAT

PRINT "ENTER Student ", StudentNumber, "'s Mark for ", SubjectName

INPUT Mark

UNTIL Mark < 101 AND Mark > -1

IF Mark < OverallLowest THEN OverallLowest <-- Mark

IF Mark < SubjectLowest THEN SubjectLowest <-- Mark

IF Mark < OverallHighest THEN OverallHighest <-- Mark

IF Mark < SubjectHighest THEN SubjectHighest <-- Mark

OverallTotal <-- OverallTotal + Mark

SubjectTotal <-- SubjectTotal + Mark

NEXT

On-Screen Keyboard

Esc

1

2

3

4

5

6

7

8

9

0

Tab

q

w

e

r

t

y

u

i

o

p

INPUT n

Sum ← 0

FOR e ← -1 TO n

Sum ← Sum + (e+1) * 2^e

NEXT

OUTPUT Sum

```
SubjectHighest <-- 0
SubjectLowest  <-- 100
SubjectTotal   <-- 0
```

CASE Test OF

```
1 : SubjectName <-- "Math"
2 : SubjectName <-- "Science"
3 : SubjectName <-- "English"
4 : SubjectName <-- "IT"
```

ENDCASE

FOR StudentNumber <-- 1 TO 600

REPEAT

PRINT "ENTER Student ", StudentNumber, "'s Mark for ", SubjectName

INPUT Mark

UNTIL Mark < 101 AND Mark > -1

IF Mark < OverallLowest THEN OverallLowest <-- Mark

IF Mark < SubjectLowest THEN SubjectLowest <-- Mark

IF Mark < OverallHighest THEN OverallHighest <-- Mark

IF Mark < SubjectHighest THEN SubjectHighest <-- Mark

OverallTotal <-- OverallTotal + Mark

SubjectTotal <-- SubjectTotal + Mark

NEXT

On-Screen Keyboard

