Informatics Institute of Technology
Department of Computing
InfoSchol Program 2019

Module: Programming Principles

Module Code: 4COSC006C
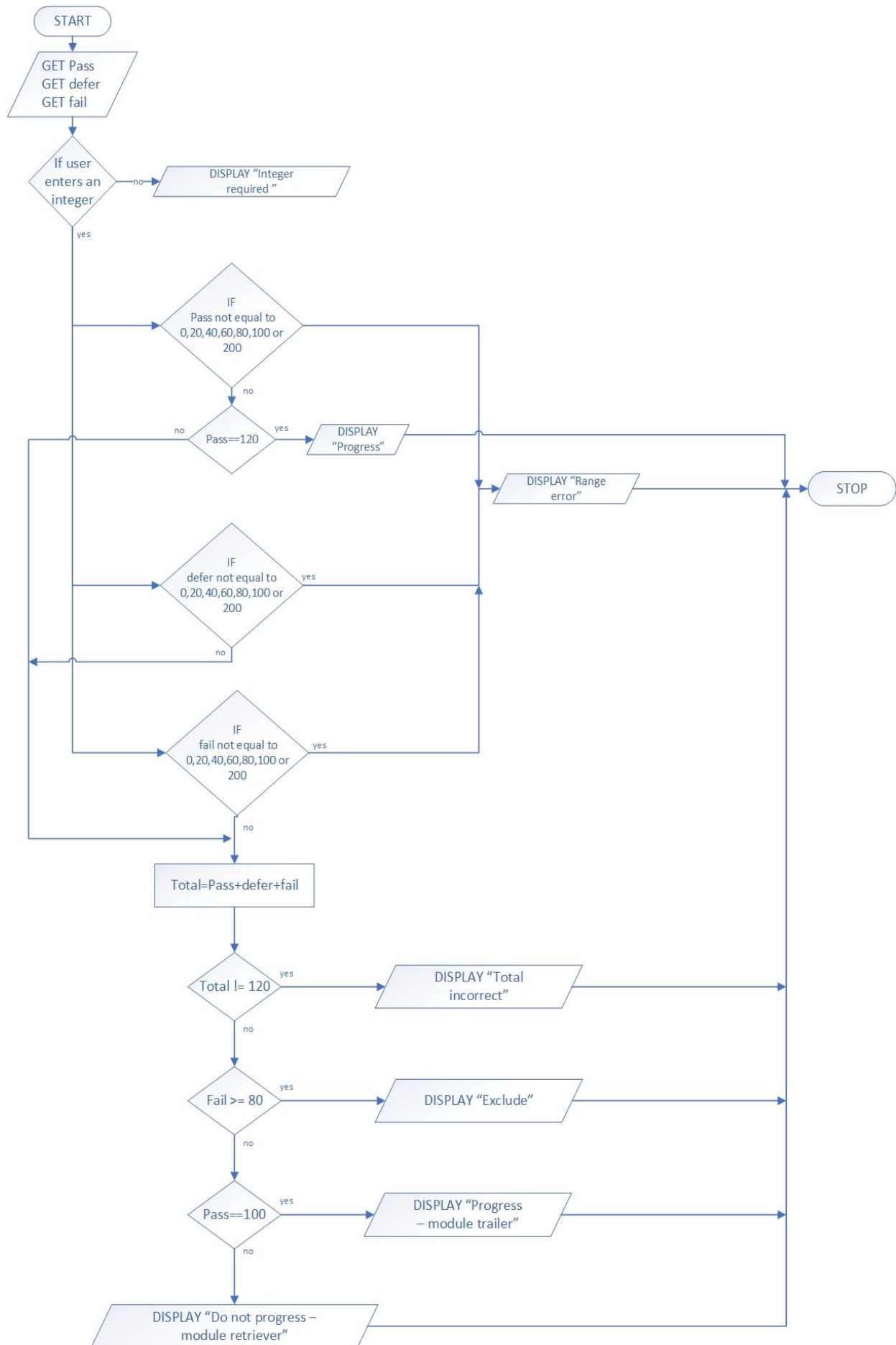
Course Work

(Flow Chats)

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Part 1
Student Version

START

GET Pass
GET defer
GET fail

If user enters an integer → no → DISPLAY "Integer required"

yes

IF Pass not equal to 0,20,40,60,80,100 or 200

no

Pass==120 → yes → DISPLAY "Progress"

no

DISPLAY "Range error"

STOP

IF defer not equal to 0,20,40,60,80,100 or 200 → yes

no

IF fail not equal to 0,20,40,60,80,100 or 200 → yes

no

Total=Pass+defer+fail

Total != 120 → yes → DISPLAY "Total incorrect"

no

Fail >= 80 → yes → DISPLAY "Exclude"

no

Pass==100 → yes → DISPLAY "Progress – module trailer"

no

DISPLAY "Do not progress – module retriever"

START

progress_count = 0
trailing_count = 0
retriever_count = 0
excluded_count = 0

Part 2
Staff Version

GET Pass
GET defer
GET fail

IF
Pass=q or
defer=q or
fail=q

yes

no

IF
use enters an
integer

no

Display "Integer
required"

yes

IF
Pass not equal to
0,20,40,60,80,100 or
120

no

yes

IF
Pass==120

DISPLAY
"Progress"

IF
defer not equal to
0,20,40,60,80,100 or
120

no

Display "Range
error"

yes

IF
fail not equal to
0,20,40,60,80,100 or
120

no

yes

Total = Pass + defer + fail

Total!=120

yes

DISPLAY "Total
incorrect"

no

fail>=80

yes

DISPLAY
"Exclude"

no

Pass==100

yes

DISPLAY "Progress –
module trailer"

no

DISPLAY "Do not
progress – module
retriever"

```
pstar="*"*progress_count
 tstar="*"*trailing_count
 rstar="*"*retriever_count
 estar="*"*excluded_count
```

```
DISPLAY "Progress",progress_count,":",pstar
DISPLAY "Trailing",trailing_count,":",tstar
DISPLAY "Retriever",retriever_count,":",rstar
DISPLAY "Excluded",excluded_count,":",estar
DISPLAY
(progress_count+trailing_count+retriever_count+excluded_count),
"outcomes in total"
```

STOP