

Ryan Filgas

CS 162

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Computer Science Scheduling

Calculator

Initiate do while loop for restart.

Welcome User

user input:
Algorithm
Time

User input:
Have they
started working
on program yet?

Ask.
Read in.
Echo.

hours
spent

Yes

yes
or?
no:

ASK user#
of hours
put in.

No

User input:
Days until
program
due.

-- Explain Problem
-- Explain needed
input

-- Tell User about how
to change answers
Transition

- ASK "How long will programming
take."
- Read in input.
- Echo back

--- Asks "Have you started
programming yet?"
-- read in yes or no
-- Echoes back

conditional
Expression

--- ASK "How many hours until
Program is due?"
--- Read in daysUntilDue
--- Echo back

Get user inputs:
 Hours Unavailable
 Personal Hours
 Extra Curriculars
 Class Hours
 other Hours

- "How many hours are you unavailable? (work, school, etc)"
- "How many personal hours? (eat, sleep, dog walking etc.)"
- "How many extra curricular hours? ("TV, music, gaming")"
- "How many class hours for other courses including homework time?"
- ↳ If How many hours not covered?

For each question,
 read in user input
 & echo back.

--- Initiate 'do' portion
 of loop.

--- display what user
 entered in for each
 question, make sure
 they're numbered.

read in
 response as

: yesOrNo

Yes

yes
 or
 no

Conditional
 expression.

What do
 you want
 to change?
 Choose 1-9!"

user input

No

Get user input: new value?

Read in new value for variable selected.

Calculations

timeRemaining = programmingTime - hours spent
 $= (\text{days until due} \times 24) - \text{time remaining}$

timeCommitments = (hours unavailable + personal hours + extra curriculars + class hours + other hours)

netHours (if user has enough time)
 $= \text{time Available} - \text{time Commitments}$

through a

Conditional Expression

Deliver results to User

netHours >

net Hours < 0

netHours

0 (netHours)

Tell user:
Based on
info, you
will finish
w/ net hours
time to
spare!

Tell user:
Based on
info you
will barely
have enough
time. More
is advised.

Tell user:
Based on
info, you
will be
short
net hours,
& unable to
complete.

Get User Input.
Do you Want to
Restart?

-- ask
-- Read in your
--- echo back

Yes

YES
or
NO

NO

Tell user:
Thank you!
Restarting

Return zero

Tell user:
Thank you! Terminating Program...