# Flowchart for week\_1 of introduction to problem solving semester 2

start

Flowchart for simple interest:

* Start
* Input principle(p)

Input principle

* Input time(t)
* Input rate(r)

Input time

* Compute simple interest= p\*(1+(r/100)\*t)
* Print simple interest
* End

Input rate

Simple interest=(p\*r\*t)/100

end

start

start

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Flowchart for compound interest

start

* Start
* Input principle (p)

Input principle

* Input rate (r)
* Input number of times (n)
* Input time in years (t)

Input rate

* Compute compound interest :A = p\*(1+r/n)^(n\*t)
* Print compound interest
* End

Input time

Input number of times

Compound interest= P \* (1 + R/n) ^(n\*t)

Print compound interest

end

Flowchart for annuity plan

start

* Start
* Input PMT,

Input PMT

* Input R
* Input n
* Input t

Input R

* Compute x = R / n
* Compute y = n\*t
* Compute z = (1 + x) ^y

Input n

* Compute A = PMT \* (z - 1) / x
* Print A
* End

start

Print A

A=PMT \* (z-1)/x

Z=(1+x)^y

X=R/n

Y=n\*t

Input t