Assignment

Question;

Osman earns 1million ugx, he is entitled to pay 30% of PAYE and 11% of NSSF. Calculate his net pay.

Visualize what is needed in terms of

1. Memory
2. Programming

**Answers**

1. Visualize in terms of Memory

Net pay = Gross pay – DeductionsS

Deductions in this case are PAYE and NSSF.

Net pay = Gross pay – (PAYE+NSSF)

I would reserve space for;

1st space for gross pay which in this case is 1,000,000 ugx

2nd space for the PAYE percentage (30%)

3rd space for the NSSF percentage (11%)

4th space for calculating NSSF

0.11\*1,000,000

NSSF=110,000 UGX

5th space for calculating PAYE

If salary exceeds 410,000, we add Ushs 25,000plus 30% of the amount by which

chargeable income exceeds Ushs. 410,000

25,000 + 0.3\*(1,000,000 – 410,000)

PAYE = 202,000 UGX

6th space for getting net pay

Net pay = Gross pay – (PAYE+NSSF)

1,000,000 – (202,000 + 110,000)

Net pay = 688,000 UGX

So I need 6 spaces in memory in order to get Osman’s Net pay

1. Visualize in terms of programming

I would declare 6 variables

1st variable for the Gross pay

2nd variable to store PAYE percentage (30%)

3rd variable to store NSSF percentage (11%)

4th variable to store how much Osman pays for PAYE

5th variable to store how much Osman pays for NSSF

6th variable to store the net pay

I would then initialize 3 variables that is gross pay of 1million, PAYE % which is (30%) and NSSF % which is (11%).

I would then use the 1st and 2nd variable to calculate the value to store in the 4th variable

I would also use the 1st and 3rd variable to get the value to store in the 5th variable

Lastly I would use the 1st ,4th and 5th variable to get the value to store in the 6th variable which in this case is the net pay