PF assignment

Problem solving Muhammad Waleed

Problem 1:

1. Enter user Age
2. Enter user Height
3. Enter weight of first child
4. Enter weight of second child
5. Display/print Age, Height, Weight of first and second child. Problem 2:
   1. Input the map measurement in kilometres.
   2. Multiply the input value by 1000 to get the measurement in metric.
   3. Display the measurement in meter.
   4. Input the map measurement in miles
   5. Multiply the input value by 1609 to get the measurement in metric.
   6. Display the measurement in meter. Problem 3:
      1. Input first number
      2. Input operation
      3. Input second number
      4. Operation is (\*) then multiply both and print the result
      5. Operation is (+) then add both and print the result
      6. Operation is (-) then subtract both and print the result
      7. Operation is (/) then divide both and print the result

PAC charts Chart 1

|  |  |
| --- | --- |
| **Given data:** Student name Student ID  Marks in subject 1  Marks in subject 2 Marks in subject 3 | **Required data:**  average of marks |
| **Processing data**  sum= marks1+marks2+marks3 average= sum/3 | **solution alternatives**  take id, name, marks as input define them as constant |

Chart 2

|  |  |
| --- | --- |
| **Given data:** length width | **Required data: area** |
| **Processing data**  area= length \* width | **solution alternatives**  take length and width as input define them as constant |

chart3

|  |  |
| --- | --- |
| **Given data:**  150 days  40000 kilometer | **Required data:** total distance total time |
| **Processing data**  distance= 40000\*150  time= distance/(150\*24\*3600) | **solution alternatives**  take distance per day and days as input define them as constant |

Chart 4

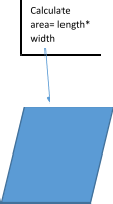
|  |  |
| --- | --- |
| **Given data:**  temperature in Celsius | **Required data:**  temperature in Fahrenheit |
| **Processing data**  Fahrenheit=( Celsius\*9/5)+32 | **solution alternatives**  take temperature as input define them as constant |

IPO chart

|  |  |  |
| --- | --- | --- |
| INPUT | PROCESSING | OUTPUT |
| 8000 Monday | sum of step | Average steps per week |
| 9500 Tuesday | divide sum by 7 |  |
| 7500 Wednesday | calculate average |  |
| 10500 Thursday | print average |  |
| 6200 Friday | end |  |
| 8800 Saturday |  |  |
| 7100 Sunday |  |  |

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Flowcharts



Area: temperature: average:

