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| **PBL Solution Template** | |
| **PBL Problem Title:** | Input three whole numbers and output the average of the three numbers |
| **Week Number:** | 1 |
| **Class Name:** | Software Development Fundamentals |
| **Student Names/Numbers:** | Ronan Breen/ X00152190 |
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|  |  |
| **PBL Solution** | 1.1 |
| **Data** | **Inputs:** |
|  | Format normally ***Name : Type*** |
| First number (number one) Integer |
| Second number (number two) Integer |
| Third number (number three) Integer |
|  |
|  |
|  |
|  |
| **Outputs:** |
| Format normally ***Name : Type*** |
| Average(AvgNo) Floating Point |
|  |
|  |
|  |
|  |
|  |
|  |
| **Algorithm** | **Begin** |
|  | Input First number(number one) |
| Input Second number(number two) |
| Input Third number(number three) |
| AvgNo = (number one + number two + number three)/ amount of numbers |
| Output = AvgNo |
| End |
|  |
| **End** |

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| **PBL Solution Template** | |
| **PBL Problem Title:** | Number of calories person needs in one day |
| **Week Number:** | 1 |
| **Class Name:** | Software Development Fundamentals |
| **Student Names/Numbers:** | Ronan Breen/ X00152190 |
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|  |  |
| **PBL Solution** | Lab 1: Pseudo Codes 1.2 |
| **Data** | **Inputs:** |
|  | Format normally ***Name : Type*** |
| Weight (Persons Weight) Integer |
| Calories needed per body weight = (Calories needed) Integer |
|  |
| … where Calories needed = 19 |
|  |
|  |
|  |
| **Outputs:** |
| Format normally ***Name : Type*** |
| Number of Calories needed |
|  |
|  |
|  |
|  |
|  |
|  |
| **Algorithm** | **Begin** |
|  | Input weight(Persons Weight) |
| Input Calories needed |
| Number of Calories needed = PersonsWeight \* Calories needed (19) |
| Output Number of Calories needed |
| End |
|  |
| **End** |

|  |  |
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| **PBL Solution Template** | |
| **PBL Problem Title:** | Earth Days |
| **Week Number:** | 1 |
| **Class Name:** | Software Development Fundamentals |
| **Student Names/Numbers:** | Ronan Breen/ X00152190 |
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|  |  |
| **PBL Solution** | Lab 1: Pseudo Codes 1.3 |
| **Data** | **Inputs:** |
|  | Format normally ***Name : Type*** |
| number of earth days planet Y takes to travel around the sun |
| Earth days Mercury travels around Sun = 88 Integer |
| Earth days Venus travels around Sun = 225 Integer |
| Earth days Jupiter travels around Sun = 4380 Integer |
| Earth days Saturn travels around Sun = 10767 Integer |
|  |
|  |
| **Outputs:** |
| Format normally ***Name : Type*** |
| Age on Mercury Floating point |
| Age on Venus Floating point |
| Age on Jupiter Floating point |
| Age on Saturn Floating point |
|  |
|  |
|  |
| **Algorithm** | **Begin** |
|  |  |
| Input Earth days Mercury travels around Sun |
| Input Earth days Venus travels around Sun |
| Input Earth days Jupiter travels around Sun |
| Input Earth days Saturn travels around Sun |
| Age on Mercury = (Earth Days\*365)/ Earth days Mercury travels around Sun |
| Age on Venus = (Earth Days\*365)/ Earth days Venus travels around Sun |
| Age on Jupiter = (Earth Days\*365)/ Earth days Jupiter travels around Sun |
| Age on Saturn = (Earth Days\*365)/ Earth days Saturn travels around Sun |
| Output Age on Mercury |
| Output Age on Venus |
| Output Age on Jupiter |
| Output Age on Saturn |
| End |
|  |
| **End** |