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#1

|  |  |  |
| --- | --- | --- |
| Input | Processing | Output |
| Area of lawn  time (15 weeks) | Compute area of lawn in square feet.  Multiply area by .01  Compute total amount charged in 15 | Total cost |

Algorithm:

Step1: calculate the area of each lawn

Step 2: compute amount charged per lawn

Step3: compute total amount charged in 15 weeks.

#2

|  |  |  |
| --- | --- | --- |
| Input | Processing | Output |
| Regular hours  Overtime hours  Regular hourly wage | Compute regular hourly wage  Compute over time wage  Compute tax payment  Compute payment after tax | Net salary |

Algorithm:

Step 1: compute regular hourly salary

Step 2: compute over time salary

Step 3: compute tax paid

Step 4: compute total salary before tax

Step5: subtract tax payment from the total

#3

* Sequence
* Selection
* Repetition
* Try, catch and throw

#4

|  |  |  |
| --- | --- | --- |
| Input | Processing | Output |
| Radius of circle | Diameter: multiply radius by 2  Area of a circle is calculated by multiplying Π by radius the power of 2  Circumference of a circle calculated by multiplying diameter by Π | Diameter  Area  circumference |

Algorithm

Step1: get radius of the circle

Step2: calculate diameter area of circle

Step 3: calculate area of a circle

Step 4: calculate circumference of a circle