Assignment Number 1

Defining Table

|  |  |  |
| --- | --- | --- |
| Input | Processing | Output |
| radius | Compute the diameter: d = 2r Compute the circumference: c = 2πr Compute the area: a = πr2 | diameter, circumference, area |

Q1

* multiply by 15 process
* season cost out put
* area of lawn Input
* multiply by 0.01 Input Process

Q 2

1. Get the total area of the lawn from the user.
2. Multiply the area of the lawn by 0.01 and then by 15 to get the season cost.
3. Display the season cost for the user to see.

Q3

1. multiply overtime hours by regular hourly wage by 1.5 to get overtime pay (overPay = overHours \* regWage \* 1.5) (Process)
2. subtract tax from gross pay to get net pay (netPay = grossPay - tax) (Process)
3. overtime hours (Input)
4. multiply regular hours by regular hourly wage to get regular pay (regPay = regHours \* regWage) (Process)
5. multiply gross pay by 0.15 to get tax (tax = grossPay \* 0.15) (Process)
6. regular hourly wage (input)
7. regular hours (input)
8. add regular pay and overtime pay to get gross pay (grossPay = regPay + overPay) (Process)
9. net pay (output)

Q 4

1. Get regular hours, overtime hours and regular hourly hours wage form the user
2. Multiply regular hours by regular hourly wage to get regular pay ( regular pay = regHours \*regWage)
3. Multiply over time hour by regular hour wage by 1.5 to get over time pay (overpay = overHour \* regWage\*1.5)
4. Add regular pay and overtime pay to get gross pay (gross pay = regPay + overPay)
5. Multiply gross pay by 0.15 to get tax (tax = grossPay\*0.15)
6. Subtract tax from gross pay to get net pay (netPay = grossPay tax)
7. Display net pay for the user to see

Q 5

c. sequence

d. selection

e. repetition

f. try, catch, and throw

Q 6

**Sequence** causes the computer to execute statement in the order they are written in a program from top to bottom

**Selection** causes the computer to select one group of statement to execute and another group or group to skip

**Repetition** causes the computer to repeat a group of statement