**Maharishi University of Management**

**Introduction to programing in JavaScript**

Assignment # 1

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1. **Example 2**

You have been asked to write a program that will read from the keyboard the radius of a circle and will output to the monitor the diameter, circumference, and area of the circle.

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| --- | --- | --- |
| Input | Process | Output |
| Radius of a circle | Diameter = 2\*radius  Circumference= 2\*pi\*radius  Area = pi\*(radius)^2 | diameter, circumference, and area of the circle |

1. **Question 1**

Your company needs a program to compute the amount to charge customers for mowing their lawns for an entire season. An employee will type in the total area of the customer’s lawn in square feet. Your company charges 10 cents per square foot to mow a lawn one time and will mow each lawn once a week for 15 weeks.

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| --- | --- | --- |
| Input | Process | Output |
| Total area | Total cost = 10 cents\*total area \* 15 weeks | Total cost or charge |

1. **Question 2**

You have been asked to write a computer program that will output an employee’s after tax pay. Your program will read from the keyboard the number of regular hours and overtime hours that the employee worked and the employee’s regular hourly wage. The employee is paid a bonus of 1.5 times regular pay for each overtime hour worked. Tax is 15% of the employee’s gross pay.

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| --- | --- | --- |
| Input | Process | Output |
| * Number of regular hours * Number of overtime hours * Regular hourly wage | Total pay after tax = (Regular hourly wage\* Number of regular hours + Number of overtime hours \* 1.5\* (regular hourly wage))  – 0.15\*((Regular hourly wage\* Number of regular hours + Number of overtime hours \* 1.5\* (regular hourly wage)) | Total cost or charge |