

# Operating System Laboratory Homework

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## 1 Preface

This document was arranged by LaTeX sample code. The aim of this document is to practice and become familiar with its syntax. The author of this paper was so amazed about how cool and practical it is. We are going to test five distinct materials:

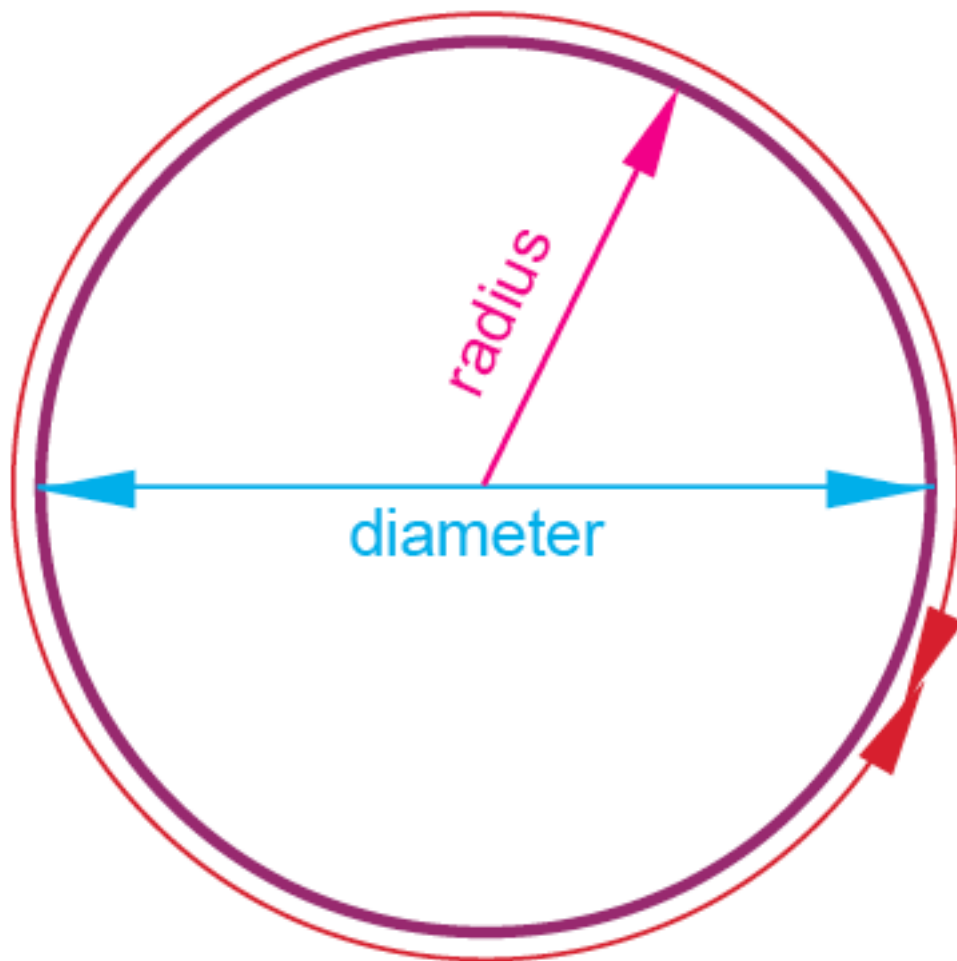
- Sample text which was brought as Preface.
- Sample image
- Sample formula
- Sample table
- A piece of programming code

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Moreover in the context we will explain about circle, one of the most fundamental objects exist in our world.

## 2 Circle

A circle is a shape consisting of all points in a plane that are a given distance from a given point, the centre; equivalently it is the curve traced out by a point that moves in a plane so that its distance from a given point is constant. A simple circle looks like as following:



circumference

### 3 Formulas

The perimeter of any circle is as below:

$$C = 2\pi r$$

Which r indicates radius. The area of any circle is as below:

$$S = \pi r^2$$

$$\pi = 3.14159265359$$

### 4 Implementation

Here is an implementation of Circle class in C++:

```
class Circle {  
private:  
    int radius;  
public:  
    Circle(int r):radius(r){}  
    double GetArea(){ return pi * (radius^2); }  
    double Get2P(){ return 2 * pi * radius; }  
    static double pi;  
};  
  
double Circle::pi=3.14159265359;
```

This marks the end of the document.

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