

C Programming Lab Manual

Experiment 1: Area and Circumference of a Circle

Aim

To write a C program to read the radius of a circle and compute the area and circumference.

Algorithm

1. Start.
2. Read the radius r .
3. Calculate area = $\pi \times r \times r$.
4. Calculate circumference = $2 \times \pi \times r$.
5. Display area and circumference.
6. Stop.

Program

```
#include <stdio.h>
#define PI 3.142

int main()
{
    int r;
    double area, circum;

    printf("Enter radius of a circle: ");
    scanf("%d", &r);

    area = PI * r * r;
    circum = 2 * PI * r;

    printf("Area of a circle = %.2f\n", area);
    printf("Circumference of a circle = %.2f\n", circum);

    return 0;
}
```

Sample Output

```
Enter radius of a circle: 5
Area of a circle = 78.55
Circumference of a circle = 31.42
```

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The AGT Cytogenetics Laboratory Manual Marilyn S. Arsham, Margaret J. Barch, Helen J. Lawce, 2017-04-24 Cytogenetics is the study of chromosome morphology structure pathology function and behavior. The field has evolved to embrace molecular cytogenetic changes now termed cytogenomics. Cytogeneticists utilize an assortment of procedures to investigate the full complement of chromosomes and/or a targeted region within a specific chromosome in metaphase or interphase. Tools include routine analysis of G banded chromosomes, specialized stains that address specific chromosomal structures and molecular probes such as fluorescence in situ hybridization (FISH) and chromosome microarray analysis which employ a variety of methods to highlight a region as small as a single specific genetic sequence under investigation. The AGT Cytogenetics Laboratory Manual Fourth Edition offers a comprehensive description of the diagnostic tests offered by the clinical laboratory and explains the science behind them. One of the most valuable assets is its rich compilation of laboratory tested protocols currently being used in leading laboratories along with practical advice for nearly every area of interest to cytogeneticists. In addition to covering essential topics that have been the backbone of cytogenetics for over 60 years such as the basic components of a cell, use of a microscope, human tissue processing for cytogenetic analysis, prenatal constitutional and neoplastic laboratory safety and the mechanisms behind chromosome rearrangement and aneuploidy, this edition introduces new and expanded chapters by experts in the field. Some of these new topics include a unique collection of chromosome heteromorphisms, clinical examples of genomic imprinting, an example driven overview of chromosomal microarray mathematics specifically geared for the cytogeneticist, usage of ISCN's cytogenetic language to describe chromosome changes, tips for laboratory management, examples of laboratory information systems, a collection of internet and library resources and a special chapter on animal chromosomes for the research and zoo cytogeneticist. The range of topics is thus broad yet comprehensive offering the student a resource that teaches the procedures performed in the cytogenetics laboratory environment and the laboratory professional with a peer reviewed reference that explores the basis of each of these procedures. This makes it a useful resource for researchers, clinicians and lab professionals as well as students in a university or medical school setting.

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