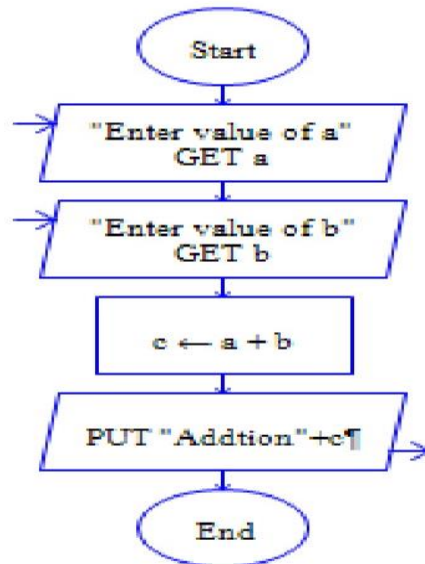# EXPERIMENT NO.1

## *Algorithm and Flowchart*

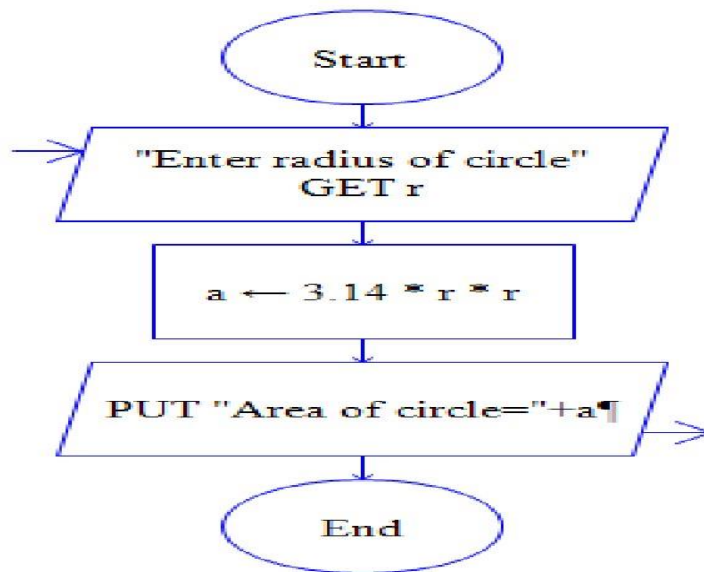### SOLUTIONS

**1.      To perform and display addition of two number**

Start

"Enter value of a"
GET a

"Enter value of b"
GET b

$c \leftarrow a + b$

PUT "Addtion"+c

End

**2.      To find the average of three numbers.**

Start

"Enter a"
GET a

"Enter b"
GET b

"Enter c"
GET c

$d \leftarrow (a + b + c) / 3$

PUT "Average="+d

End

**3.      Find area of circle**

```
                    ┌─────────────┐
                    │    Start    │
                    └─────────────┘
                           │
                           ▼
          ╱──────────────────────────────╲
          ╱   "Enter radius of circle"    ╱
          ╱          GET r                ╱
          ╱────────────────────────────╱
                           │
                           ▼
          ┌──────────────────────────────┐
          │      a ← 3.14 * r * r         │
          └──────────────────────────────┘
                           │
                           ▼
          ╱──────────────────────────────╲
          ╱   PUT "Area of circle="+a¶    ╱
          ╱────────────────────────────╱
                           │
                           ▼
                    ┌─────────────┐
                    │     End     │
                    └─────────────┘
```
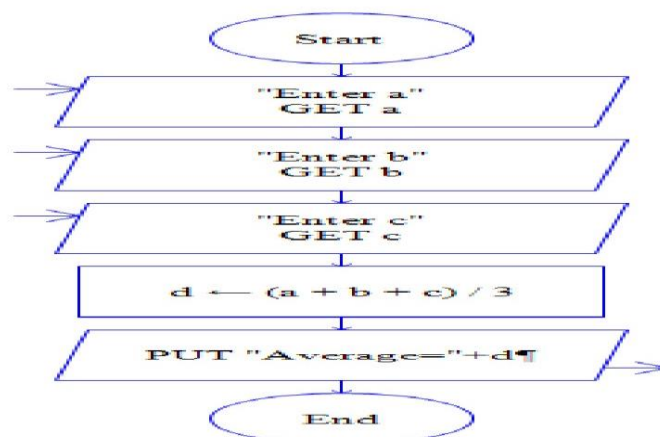
**4.      Convert temperature Fahrenheit to Celsius**

```
                    ┌─────────────┐
                    │    Start    │
                    └─────────────┘
                           │
                           ▼
          ╱──────────────────────────────╲
          ╱   "Enter temperature in      ╱
          ╱        farenhite"            ╱
          ╱          GET f               ╱
          ╱────────────────────────────╱
                           │
                           ▼
          ┌──────────────────────────────┐
          │    t ← (f - 32) * 0.556       │
          └──────────────────────────────┘
                           │
                           ▼
          ╱──────────────────────────────╲
          ╱   PUT "Temperature in        ╱
          ╱      celcius="+t¶            ╱
          ╱────────────────────────────╱
                           │
                           ▼
                    ┌─────────────┐
                    │     End     │
                    └─────────────┘
```
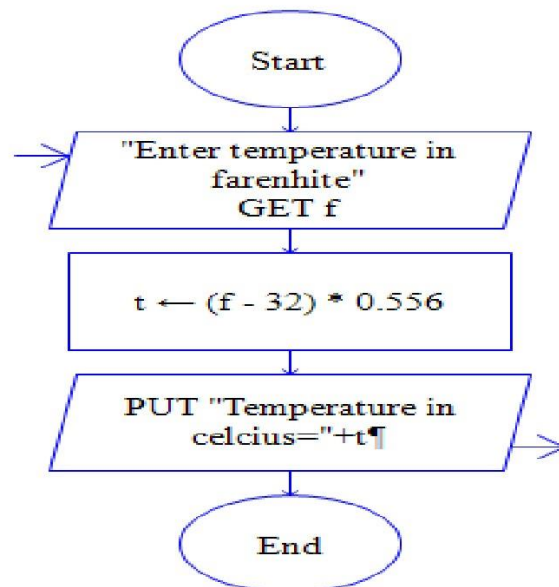
**5.** **Implement the C program to find out Simple interest.**

Start

"Enter principle value"
GET p

"Enter the rate of interest"
GET r

"Enter number of years"
GET n

$s \leftarrow (p * r * n) / 100$

PUT "Simple
interest="+s¶

End