

UNIVERSITY OF GUJRAT



A WORLD CLASS UNIVERSITY

## **Assignment#2**

**Subject:Programming Fundamentals**

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**Course Code: Cs(102)**

**Section A(Evening)**

## **Program#1**

Write a program to assigned values to three variables at the time of declaration. Print the assigned values on the computer screen.

### **Code in C:**

```
#include <stdio.h>

int main() {
    int a = 5, b = 10, c = 15;
    printf("a = %d\n b = %d\n c = %d\n", a, b, c);
    return 0;
}
```

### **Code in C++:**

```
#include <iostream>

using namespace std;

int main() {
    int a = 5, b = 10, c = 15;
    cout << "a = " << a << "\nb = " << b << "\nc = " << c << '\n';
    return 0;
}
```

### **Code in JavaScript:**

```
const a = 5, b = 10, c = 15;
console.log(a = ${a});
console.log(`b = ${b}`);
console.log(c = ${c});
```

### **Code In Python:**

```
a, b, c = 5, 10, 15
print("a =", a)
print("b =", b)
print("c =", c)
```

## **Program#2**

Write a program to print a message "C language is a powerful programming language." on screen.

### **Code in C:**

```
#include <stdio.h>

int main() {
    printf("C language is a powerful programming language. ");
    return 0;
}
```

### **Code in C++:**

```
#include <iostream>
using namespace std;

int main() {
    cout << "C language is a powerful programming language." << endl;
    return 0;
}
```

### **Code in JavaScript:**

```
console.log("C language is a powerful programming language.");
```

### **Code In Python:**

```
print("C language is a powerful programming language.")
```

## **Program#3**

Write a program to assign two variables by assignment statement. Interchange the values and print the result on the screen

### **Code in C:**

```
#include <stdio.h>

int main() {
    int x = 7, y = 12, temp;
    temp = x;
    x = y;
    y = temp;
    printf("Interchanged Values: x = %d, y = %d\n", x, y);
    return 0;
}
```

**Code in C++:**

```
#include <iostream>

using namespace std;

int main() {
    int x = 7, y = 12, temp;
    temp = x;
    x = y;
    y = temp;
    cout << "After swap: x = " << x << ", y = " << y << '\n';
    return 0;
}
```

**Code in JavaScript:**

```
let x = 7, y = 12, temp;
temp = x;
x = y;
y = temp;
console.log(`After swap: x = ${x}, y = ${y}`);
```

**Code in Python:**

```
x, y = 7, 12
x, y = y, x
print("After swap: x =", x, ", y =", y)
```

**Program#4:**

Write a program to assign the numeric value to a variable year. Calculate the number of months, and print on the screen.

**Code in C:**

```
#include <stdio.h>

int main() {
    int year, presentYear, months;
    scanf("%d %d", &year, &presentYear);
    months = (presentYear - year) * 12;
    printf("Months: %d", months);
    return 0;
}
```

**Code in C++:**

```
#include <iostream>
using namespace std;
int main() {
    int year, presentYear, months;
    cin >> year >> presentYear;
    months = (presentYear - year) * 12;
    cout << "Months: " << months;
    return 0;
}
```

**Code in JavaScript:**

```
let year = parseInt(prompt());
let presentYear = parseInt(prompt());
let months = (presentYear - year) * 12;
console.log("Months: " + months);
```

**Code in Python:**

```
year = int(input())
present_year = int(input())
months = (present_year - year) * 12
print("Months:", months)
```

**Program#5**

Write a program to get two numbers. Calculate the sum and product of the numbers and then print the result on the screen.

**Code in C:**

```
#include <stdio.h>
int main() {
    int a, b;
    scanf("%d %d", &a, &b);
    printf("Sum = %d \n Product = %d \n", a + b, a * b);
    return 0;
}
```

**Code in C++:**

```
#include <iostream>

using namespace std;

int main() {
    int a, b;

    cin >> a >> b;
    cout << "Sum = " << a + b << endl;
    cout << "Product = " << a * b << endl;
    return 0;
}
```

**Code in JavaScript:**

```
const prompt = require('prompt-sync')();

let a = parseFloat(prompt('Enter first number: '));
let b = parseFloat(prompt('Enter second number: '));
console.log('Sum =', a + b);
console.log('Product =', a * b);
```

**Code in Python:**

```
a, b = map(int, input().split())
print("Sum =", a + b)
print("Product =", a * b)
```

**Program#6**

Write a program to get age (in years) of a person. Calculate the age in months and print the age in months

**Code in C:**

```
#include <stdio.h>

int main() {
    int years;
    scanf("%d", &years);
    printf("Age in months = %d\n", years * 12);
    return 0;
}
```

**Code in C++:**

```
#include <iostream>
```

```
using namespace std;  
int main() {  
    int years;  
    cin >> years;  
    cout << "Age in months = " << years * 12 << endl;  
    return 0;  
}
```

### **Code in JavaScript:**

```
const readline = require('readline');  
const rl = readline.createInterface({ input: process.stdin, output: process.stdout });  
rl.question("", input => {  
    const years = Number(input);  
    console.log('Age in months =', years * 12);  
    rl.close();  
});
```

### **Code in Python:**

```
years = int(input())  
print("Age in months =", years * 12)
```

### **Program#7:**

Write a program to get the Roll No. of a student and marks obtained in three subject Programming Fundamentals, Introduction to Computing and Computer Graphics. Calculate the Total and Average. Each subject has a maximum of 100 marks.

### **Code in C:**

```
#include <stdio.h>  
int main() {  
    int rollNo;  
    float pf, ic, cg, total, average;  
    scanf("%d", &rollNo);  
    scanf("%f %f %f", &pf, &ic, &cg);  
    total = pf + ic + cg;  
    average = total / 3;  
    printf("Roll No: %d\n", rollNo);  
    printf("Total: %.2f\n", total);  
    printf("Average: %.2f", average);
```

```
    return 0;
```

```
}
```

### **Code in C++:**

```
#include <iostream>

using namespace std;

int main() {
    int rollNo;
    float pf, ic, cg, total, average;
    cin >> rollNo >> pf >> ic >> cg;
    total = pf + ic + cg;
    average = total / 3;
    cout << "Roll No: " << rollNo << endl;
    cout << "Total: " << total << endl;
    cout << "Average: " << average;
    return 0;
}
```

### **Code in JavaScript:**

```
const prompt = require('prompt-sync')();
let rollNo = parseInt(prompt('Enter Roll No: '));
let pf = parseFloat(prompt('Enter Programming Fundamentals marks: '));
let ic = parseFloat(prompt('Enter Introduction to Computing marks: '));
let cg = parseFloat(prompt('Enter Computer Graphics marks: '));
let total = pf + ic + cg;
let average = total / 3;
console.log('Roll No:', rollNo);
console.log('Total:', total);
console.log('Average:', average);
```

### **Code in Python:**

```
roll_no = int(input())
pf = float(input())
ic = float(input())
cg = float(input())
total = pf + ic + cg
```

```
average = total / 3
print("Roll No:", roll_no)
print("Total:", total)
print("Average:", average)
```

### **Program#8**

Write a program to get temperature in Fahrenheit. Convert the temperature to Celsius degrees by using the formula.

$$C = \frac{5}{9}(f - 32)$$

### **Code in C:**

```
#include <stdio.h>

int main() {
    float f;
    scanf("%f", &f);
    float c = 5.0 / 9.0 * (f - 32);
    printf("Celsius = %.2f\n", c);
    return 0;
}
```

### **Code in C++:**

```
#include <iostream>
using namespace std;
int main() {
    double f;
    cin >> f;
    double c = 5.0 / 9.0 * (f - 32);
    cout << "Celsius = " << c << endl;
    return 0;
}
```

### **Code in JavaScript:**

```
const readline = require('readline');
const rl = readline.createInterface({ input: process.stdin, output: process.stdout });
rl.question("", input => {
    const f = Number(input);
    const c = 5 / 9 * (f - 32);
```

```
    console.log('Celsius =', c);
    rl.close();
});
```

### **Code in Python:**

```
f = float(input())
c = 5 / 9 * (f - 32)
print("Celsius =", c)
```

### **Program#9**

Write a program to find the maximum number from four numbers

### **Code in C:**

```
#include <stdio.h>

int main() {
    int a, b, c, d, max;
    scanf("%d %d %d %d", &a, &b, &c, &d);
    max = a;
    if (b > max) max = b;
    if (c > max) max = c;
    if (d > max) max = d;
    printf("Maximum = %d\n", max);
    return 0;
}
```

### **Code in C++:**

```
#include <iostream>
using namespace std;
int main() {
    int a, b, c, d;
    cin >> a >> b >> c >> d;
    int max = a;
    if (b > max) max = b;
    if (c > max) max = c;
    if (d > max) max = d;
    cout << "Maximum = " << max << endl;
    return 0;
}
```

**Code in JavaScript:**

```
const readline = require('readline');

const rl = readline.createInterface({ input: process.stdin, output: process.stdout });

rl.question("", ans => {

  const nums = ans.trim().split(/\s+/).map(Number);

  console.log('Maximum =', Math.max(...nums));

  rl.close();

});

});
```

**Code in python:**

```
nums = list(map(int, input().split()))

print("Maximum =", max(nums))
```

**Program#10**

Write a program to convert 2.5 miles into kilometers and print the result on screen. (Hint: 1 mile = 1.609 kilometers)

**Code in C:**

```
#include <stdio.h>

int main() {

    float miles = 2.5;

    float km = miles * 1.609;

    printf("Kilometers = %.3f\n", km);

    return 0;

}
```

**Code in C++:**

```
#include <iostream>

using namespace std;

int main() {

    double miles = 2.5;

    double km = miles * 1.609;

    cout << "Kilometers = " << km << endl;

    return 0;

}
```

**Code in JavaScript:**

```
const miles = 2.5;
```

```
const km = miles * 1.609;  
console.log('Kilometers =', km);
```

### **Code in Python:**

```
miles = 2.5  
km = miles * 1.609  
print("Kilometers =", km)
```

## **Program#11**

Declare and initialize two int variables, find average, print result

### **Code in C:**

```
#include <stdio.h>  
int main() {  
    int a = 8, b = 12;  
    float avg = (a + b) / 2.0;  
    printf("Average = %.2f\n", avg);  
    return 0;  
}
```

### **Code in C++:**

```
#include <iostream>  
using namespace std;  
int main() {  
    int a = 8, b = 12;  
    double avg = (a + b) / 2.0;  
    cout << "Average = " << avg << endl;  
    return 0;  
}
```

### **Code in JavaScript:**

```
const a = 8, b = 12;  
const avg = (a + b) / 2;  
console.log('Average =', avg);
```

### **Code in Python:**

```
a, b = 8, 12  
avg = (a + b) / 2  
print("Average =", avg)
```

## **Program#12**

Write a program to find the volume of a cylinder by using 'const' qualifier. The formula to find the volume of a cylinder is:

$$\text{Volume} = \pi R^2 \times H \quad \text{The value of } \pi \text{ is 3.1417}$$

### **Code in C:**

```
#include <stdio.h>

int main() {
    const float pi = 3.1417;
    float r = 4, h = 10;
    float volume = pi * r * r * h;
    printf("Volume = %.3f\n", volume);
    return 0;
}
```

### **Code in C++:**

```
#include <iostream>
using namespace std;
int main() {
    const double pi = 3.1417;
    double r = 4, h = 10;
    double volume = pi * r * r * h;
    cout << "Volume = " << volume << endl;
    return 0;
}
```

## **Program#13**

Write a program using define directive to find the area of a circle. The formula to find the area of a circle is:

$$\text{Area} = \pi R^2 \quad \text{The value of } \pi \text{ is 3.1417}$$

### **Code in C:**

```
#include <stdio.h>
#define PI 3.1417
int main() {
    int r = 5;
    float area = PI * r * r;
    printf("Area = \n", area);
    return 0;
}
```

## **Program#14**

Write a program to convert millimeters into inches and print the result on screen. (Hint: 1 inch = 25.4 mm)

### **Code in C:**

```
#include <stdio.h>
int main() {
    float mm = 50;
    float inches = mm / 25.4;
    printf("Inches = %.3f\n", inches);
    return 0;
}
```

### **Code in C++:**

```
#include <iostream>
using namespace std;
int main() {
    int millimeter= 50;
    float inches = millimeter / 25.4;
    cout << "Inches = " << inches << endl;
    return 0;
}
```

## **Program#15**

Write a program to interchange values of two variables.

### **Code in C:**

```
#include <stdio.h>
int main() {
    int a = 5, b = 10, t;
    t = a;
    a = b;
    b = t;
    printf("a = %d, b = %d\n", a, b);
    return 0;
}
```

**Code in C++:**

```
#include <iostream>
using namespace std;
int main() {
    int a = 5, b = 10, t;
    t = a;
    a = b;
    b = t;
    cout << "a = " << a << ", b = " << b << endl;
    return 0;
}
```

**Program#16**

Write a program to assign a value 3 to "int" type variables a, b and c using multiple assignment statement. Calculate the product of these numbers.

**Code in C:**

```
#include <stdio.h>
int main() {
    int a = 3, b = 3, c = 3;
    int product = a * b * c;
    printf("Product = %d\n", product);
    return 0;
}
```

**Code in C++:**

```
#include <iostream>
using namespace std;
int main() {
    int a = 3, b = 3, c = 3;
    int product = a * b * c;
    cout << "Product = " << product << endl;
    return 0;
}
```

**Code in JavaScript:**

```
const a = 3, b = 3, c = 3;
const product = a * b * c;
console.log('Product =', product);
```

**Code in Python:**

```
a = b = c = 3
```

```
print("Product =", a * b * c)
```

### **Program#17**

Separate integral and fractional parts of 15.58971

#### **Code in C:**

```
#include <stdio.h>
int main() {
    double n = 15.58971;
    int i = (int)n;
    double f = n - i;
    printf("Integral = %d\nFractional = %.5f\n", i, f);
    return 0;
}
```

#### **Code in C++:**

```
#include <iostream>
using namespace std;
int main() {
    double n = 15.58971;
    int i = (int)n;
    double f = n - i;
    cout << "Integral = " << i << endl;
    cout << "Fractional = " << f << endl;
    return 0;
}
```

#### **Code in JavaScript:**

```
const n = 15.58971;
const i = Math.floor(n);
const f = n - i;
console.log('Integral =', i);
console.log('Fractional =', f);
```

#### **Code in Python:**

```
n = 15.58971

i = int(n)

f = n - i
print("Integral =", i)
print("Fractional =", f)
```

### **Program#18**

Write a program to assign values to variables 'vi' and 't' and compute the value of 's' by using the formula:

$$S = vi * t + \frac{1}{2} at^2$$

#### **Code in C:**

```
#include <stdio.h>
int main() {
    float vi = 10, t = 5;
    float s = vi * t;
    printf("s = %.2f\n", s);
    return 0;
}
```

#### Code in C++:

```
#include <iostream>
using namespace std;
int main() {
    double vi = 10, t = 5;
    double s = vi * t;
    cout << "s = " << s << endl;
    return 0;
}
```

#### Code in JavaScript:

```
const vi = 10, t = 5;
const s = vi * t;
console.log('s =', s);
```

#### Code in Python:

```
vi, t = 10, 5
s = vi * t
print("s =", s)
```

### Program#19

Write a program to assign your age in a variable and find the age in months and days.

#### Code in C:

```
#include <stdio.h>
int main() {
    int years = 20;
    int months = years * 12;
    int days = years * 365;
    printf("Age in months = %d\nAge in days = %d\n", months, days);
    return 0;
}
```

#### Code in C++:

```
#include <iostream>
using namespace std;
int main() {
    int years = 20;
    int months = years * 12;
    int days = years * 365;
    cout << "Age in months = " << months << endl;
    cout << "Age in days = " << days << endl;
    return 0;
}
```

#### Code in JavaScript:

```
const years = 20;
const months = years * 12;
const days = years * 365;
console.log('Age in months =', months);
console.log('Age in days =', days);
```

### Code in Python

```
years = 20
months = years * 12
days = years * 365
print("Age in months =", months)
print("Age in days =", days)
```

## Program#20

Write a program to print the output as given under by using escape sequence.

C:\\Windows>

'P'     'A'     'K'

"Pakistan"

### Code in C:

```
#include <stdio.h>
int main() {
    printf("C:\\\\Windows>\\n'P'\\t'A'\\t'K'\\n\"Pakistan\\\"\\n");
    return 0;
}
```

### Code in C++

```
#include <iostream>
using namespace std;
int main() {
    cout << "C:\\\\Windows>\\n'P'\\t'A'\\t'K'\\n\"Pakistan\\\"\\n";
    return 0;
}
```

### Code in JavaScript

```
console.log("C:\\\\Windows>");
console.log("P\\t'A'\\t'K'");
console.log("\\\"Pakistan\\\"");
```

### Code in Python

```
print("C:\\\\Windows>")
print("P\\t'A'\\t'K'")
print("\\\"Pakistan\\\"")
```

## **Program#21**

Write a program to print the output as shown below using '\n' escape sequence (without using loop and use one printf statement)

XXXXX

XXXX

XXX

XX

X

### **C**

```
#include <stdio.h>
int main() {
    printf("XXXXX\nXXXX\nXXX\nXX\nX\n");
    return 0;
}
```

### **C++**

```
#include <iostream>
using namespace std;
int main() {
    cout << "XXXXX\nXXXX\nXXX\nXX\nX\n";
    return 0;
}
```

### **JavaScript**

```
console.log("XXXXX\nXXXX\nXXX\nXX\nX");
```

### **Python**

```
print("XXXXX\nXXXX\nXXX\nXX\nX")
```

## **Program#22**

Write a program to input the name, age, height and gender of the student and prints the data of student on screen.

### **C**

```
#include <stdio.h>
int main() {
    char name[50], gender[10];
    int age;
    float height;
    scanf("%s %d %f %s", name, &age, &height, gender);
```

```
    printf("Name: %s\nAge: %d\nHeight: %.2f\nGender: %s\n", name, age, height, gender);
    return 0;
}
```

## C++

```
#include <iostream>
using namespace std;
int main() {
    string name, gender;
    int age;
    double height;
    cin >> name >> age >> height >> gender;
    cout << "Name: " << name << endl;
    cout << "Age: " << age << endl;
    cout << "Height: " << height << endl;
    cout << "Gender: " << gender << endl;
    return 0;
}
```

## JavaScript

```
const readline = require('readline');
const rl = readline.createInterface({ input: process.stdin, output: process.stdout });
rl.question("", input => {
    const [name, age, height, gender] = input.trim().split(/\s+/);
    console.log('Name:', name);
    console.log('Age:', age);
    console.log('Height:', height);
    console.log('Gender:', gender);
    rl.close();
});
```

## Python

```
name, age, height, gender = input().split()
print("Name:", name)
print("Age:", age)
print("Height:", height)
print("Gender:", gender)
```

## Program#23

Input radius, find area and circumference

## C

```
#include <stdio.h>
int main() {
    float r;
    scanf("%f", &r);
    float area = 3.1416 * r * r;
    float circum = 2 * 3.1416 * r;
    printf("Area = %.2f\nCircumference = %.2f\n", area, circum);
    return 0;
}
```

## C++

```

#include <iostream>
using namespace std;
int main() {
    double r;
    cin >> r;
    double area = 3.1416 * r * r;
    double circum = 2 * 3.1416 * r;
    cout << "Area = " << area << endl;
    cout << "Circumference = " << circum << endl;
    return 0;
}

```

## JavaScript

```

const readline = require('readline');
const rl = readline.createInterface({ input: process.stdin, output: process.stdout });
rl.question("", input => {
    const r = Number(input);
    const area = 3.1416 * r * r;
    const circum = 2 * 3.1416 * r;
    console.log('Area =', area);
    console.log('Circumference =', circum);
    rl.close();
});

```

## Python

```

r = float(input())
area = 3.1416 * r * r
circum = 2 * 3.1416 * r
print("Area =", area)
print("Circumference =", circum)

```

## Program#24

Input marks of 5 subjects, calculate total and average

## C

```

#include <stdio.h>
int main() {
    float a, b, c, d, e;
    scanf("%f %f %f %f %f", &a, &b, &c, &d, &e);
    float total = a + b + c + d + e;
    float avg = total / 5;
    printf("Total = %.2f\nAverage = %.2f\n", total, avg);
    return 0;
}

```

## C++

```

#include <iostream>
using namespace std;
int main() {
    double a, b, c, d, e;
    cin >> a >> b >> c >> d >> e;
    double total = a + b + c + d + e;

```

```
    double avg = total / 5;
    cout << "Total = " << total << endl;
    cout << "Average = " << avg << endl;
    return 0;
}
```

## JavaScript

```
const readline = require('readline');
const rl = readline.createInterface({ input: process.stdin, output: process.stdout });
rl.question("", ans => {
  const m = ans.trim().split(/\s+/).map(Number);
  const total = m.reduce((a, b) => a + b, 0);
  const avg = total / 5;
  console.log('Total =', total);
  console.log('Average =', avg);
  rl.close();
});
```

## Python

```
marks = list(map(float, input().split()))
total = sum(marks)
avg = total / 5
print("Total =", total)
print("Average =", avg)
```

## Program#26.

Convert 12000 rupees into dollars (1 dollar = 60 rupees)

### C

```
#include <stdio.h>
int main() {
    float rupees = 12000;
    float dollars = rupees / 60;
    printf("Dollars = %.2f\n", dollars);
    return 0;
}
```

### C++

```
#include <iostream>
using namespace std;
int main() {
    double rupees = 12000;
    double dollars = rupees / 60;
    cout << "Dollars = " << dollars << endl;
    return 0;
}
```

### Java

```
public class Problem26 {
    public static void main(String[] args) {
        double rupees = 12000;
```

```
        double dollars = rupees / 60;
        System.out.println("Dollars = " + dollars);
    }
}
```

## JavaScript

```
const rupees = 12000;
const dollars = rupees / 60;
console.log('Dollars =', dollars);
```

## Python

```
rupees = 12000
dollars = rupees / 60
print("Dollars =", dollars)
```

## Program#27

Input time in hours, minutes, seconds; convert to seconds

## C

```
#include <stdio.h>
int main() {
    int h, m, s;
    scanf("%d %d %d", &h, &m, &s);
    int total = h * 3600 + m * 60 + s;
    printf("Seconds = %d\n", total);
    return 0;
}
```

## C++

```
#include <iostream>
using namespace std;
int main() {
    int h, m, s;
    cin >> h >> m >> s;
    int total = h * 3600 + m * 60 + s;
    cout << "Seconds = " << total << endl;
    return 0;
}
```

## JavaScript

```
const readline = require('readline');
const rl = readline.createInterface({ input: process.stdin, output: process.stdout });
rl.question("", input => {
    const [h, m, s] = input.trim().split(/\s+/).map(Number);
    console.log('Seconds =', h * 3600 + m * 60 + s);
    rl.close();
});
```

## **Python**

```
h, m, s = map(int, input().split())
print("Seconds =", h * 3600 + m * 60 + s)
```

## **Program#28**

Compute disc =  $b^2 - 4ac$

## **C**

```
#include <stdio.h>
int main() {
    float a, b, c;
    scanf("%f %f %f", &a, &b, &c);
    float disc = b * b - 4 * a * c;
    printf("Disc = %.2f\n", disc);
    return 0;
}
```

## **C++**

```
#include <iostream>
using namespace std;
int main() {
    double a, b, c;
    cin >> a >> b >> c;
    double disc = b * b - 4 * a * c;
    cout << "Disc = " << disc << endl;
    return 0;
}
```

## **JavaScript**

```
const readline = require('readline');
const rl = readline.createInterface({ input: process.stdin, output: process.stdout });
rl.question("", ans => {
    const [a, b, c] = ans.trim().split(/\s+/).map(Number);
    console.log('Disc =', b * b - 4 * a * c);
    rl.close();
});
```

## **Python**

```
a, b, c = map(float, input().split())
print("Disc =", b * b - 4 * a * c)
```

---

## **Program#29**

Print message if  $n > 100$

## **C**

```
#include <stdio.h>
```

```
int main() {
    int n;
    scanf("%d", &n);
    if (n > 100) printf("Value is greater than 100\n");
    return 0;
}
```

## C++

```
#include <iostream>
using namespace std;
int main() {
    int n;
    cin >> n;
    if (n > 100) cout << "Value is greater than 100" << endl;
    return 0;
}
```

## JavaScript

```
const readline = require('readline');
const rl = readline.createInterface({ input: process.stdin, output: process.stdout });
rl.question("", input => {
    const n = Number(input);
    if (n > 100) console.log('Value is greater than 100');
    rl.close();
});
```

## Python

```
n = int(input())
if n > 100:
    print("Value is greater than 100")
```

## Program#30

Test whether integer is odd or even

## C

```
#include <stdio.h>
int main() {
    int n;
    scanf("%d", &n);
    if (n % 2 == 0) printf("Even\n"); else printf("Odd\n");
    return 0;
}
```

## C++

```
#include <iostream>
using namespace std;
int main() {
    int n;
    cin >> n;
    if (n % 2 == 0) cout << "Even" << endl; else cout << "Odd" << endl;
    return 0;
}
```

## **JavaScript**

```
const readline = require('readline');
const rl = readline.createInterface({ input: process.stdin, output: process.stdout });
rl.question("", input => {
  const n = Number(input);
  console.log(n % 2 === 0 ? 'Even' : 'Odd');
  rl.close();
});
```

## **Python**

```
n = int(input())
print("Even" if n % 2 == 0 else "Odd")
```