PROGRAMMING IN C

1.write a c program to check whether a number is divisible by 5 and 11.

#include <stdio.h>

int main() {

int a;

printf("Enter a number: \n");

scanf("%d",&a);

if (a%5==0 && a%11==0) {

printf("The number is divisible by 5 and 11\n");

}

else {

printf("The number is not divisble\n");

}

return 0;

}

OUTPUT:

Enter a number:

55

The number is divisible by 5 and 11

2. Write a c program to calculate simple interest.

#include <stdio.h>

int main() {

    float principal, rate, time, simple\_interest;

    printf("Enter principal amount: ");

    scanf("%f", &principal);

    printf("Enter rate of interest (in %): ");

    scanf("%f", &rate);

    printf("Enter time period (in years): ");

    scanf("%f", &time);

    simple\_interest = (principal \* rate \* time) / 100;

    printf("Simple Interest = %.2f\n", simple\_interest);

    return 0;

}

Output:

Enter principal amount: 5000

Enter rate of interest (in %): 7

Enter time period (in years): 3

Simple Interest = 1050.00

3.write a c program to make a simple calculator.

#include <stdio.h>

int main() {

    char operator;

    float num1, num2, result;

    // Input first number

    printf("Enter first number: ");

    scanf("%f", &num1);

    // Input operator

    printf("Enter an operator (+, -, \*, /): ");

    scanf(" %c", &operator);

    // Input second number

    printf("Enter second number: ");

    scanf("%f", &num2);

    // Perform calculation based on operator

    switch(operator) {

        case '+':

            result = num1 + num2;

            printf("%.2f + %.2f = %.2f\n", num1, num2, result);

            break;

        case '-':

            result = num1 - num2;

            printf("%.2f - %.2f = %.2f\n", num1, num2, result);

            break;

        case '\*':

            result = num1 \* num2;

            printf("%.2f \* %.2f = %.2f\n", num1, num2, result);

            break;

        case '/':

            if(num2 != 0) {

                result = num1 / num2;

                printf("%.2f / %.2f = %.2f\n", num1, num2, result);

            } else {

                printf("Error! Division by zero is not allowed.\n");

            }

            break;

        default:

            printf("Error! Invalid operator.\n");

    }

    return 0;

}

Output:

Enter first number: 60

Enter an operator (+, -, \*, /): +

Enter second number: 40

60.00 + 40.00 = 100.00

4.write a c program to print hello world

#include <stdio.h>

int main() {

// Write C code here

printf("HELLO WORLD");

return 0;

}

OUTPUT:

HELLO WORLD

5.write a c program to print basic info.

#include <stdio.h>

int main() {

int name,sapid,batch;

printf("NAME: KUDRAT SINGH\n");

printf("sapid:590027790\n");

printf("batch: 55");

return 0;

}

Output:

NAME: KUDRAT SINGH

sapid:590027790

batch: 55

6.write a c program to print area of circle

#include <stdio.h>

#define PI 3.14159

int main() {

float radius, area;

// Input radius

printf("Enter the radius of the circle: ");

scanf("%f", &radius);

// Calculate area

area = PI \* radius \* radius;

// Print area

printf("Area of the circle = %.2f square units\n", area);

return 0;

}

Output:

Enter the radius of the circle: 8

Area of the circle = 201.06 square units