**Practical No. 07**

Program:

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 Write the C program to for Following :

    ❖ Area of Square

    ❖ Area of Rectangle

    ❖ Area of Triangle

    ❖ Area of Parallelogram

    ❖ Area of Circle

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#include <stdio.h>

#define PI 3.14

float area(int a, int b, float c)

{

    return a \* b \* c;

}

int main()

{

    int choice;

    int a, b, result;

    char ch = 'y';

    do

    {

        printf("Program to Find Area\n");

        printf("1. Area of Square\n");

        printf("2. Area of Rectangle\n");

        printf("3. Area of Triangle\n");

        printf("4. Area of Circle\n");

        printf("5. Area of Parallelogram\n");

        printf("Enter Your Choice: ");

        scanf("%d", &choice);

        switch (choice)

        {

        case 1:

            printf("Area of Square\n");

            printf("Enter Side of Square : ");

            scanf("%d", &a);

            b = a;

            printf("Area : %.2f\n\n", area(a, b, 1));

            break;

        case 2:

            printf("Area of Rectangle\n");

            printf("Enter Length and Breadth of Rectangle : ");

            scanf("%d%d", &a, &b);

            printf("Area : %.2f\n\n", area(a, b, 1));

            break;

        case 3:

            printf("Area of Triangle\n");

            printf("Enter base and Hieght of Triangle : ");

            scanf("%d%d", &a, &b);

            printf("Area : %.2f\n\n", area(a, b, 0.5));

            break;

        case 4:

            printf("Area of Circle\n");

            printf("Enter radius of Circle : ");

            scanf("%d", &a);

            b = a;

            printf("Area : %.2f\n\n", area(a, b, PI));

            break;

        case 5:

            printf("Area of Parallelogram\n");

            printf("Enter base and Height of Parallelogram : ");

            scanf("%d%d", &a, &b);

            printf("Area : %.2f\n\n", area(a, b, 1.0));

            break;

        default:

            printf("Invalid Choice...\n");

        }

        printf("Do You want to continue [Y | N]: ");

        scanf(" %c", &ch);

    } while (ch == 'Y' || ch == 'y');

    return 0;

}

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Output :

