

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
*/

#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;

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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 :

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PS E:\SGGS\2ND YEAR\DM> cd "e:\SGGS\2ND YE
Program to Find Area
1. Area of Square
2. Area of Rectangle
3. Area of Triangle
4. Area of Circle
5. Area of Parallelogram
Enter Your Choice: 4
Area of Circle
Enter radius of Circle : 5
Area : 78.50

Do You want to continue [Y | N]: y

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Program to Find Area
1. Area of Square
2. Area of Rectangle
3. Area of Triangle
4. Area of Circle
5. Area of Parallelogram
Enter Your Choice: 1
Area of Square
Enter Side of Square : 5
Area : 25.00

Do You want to continue [Y | N]: █

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