Assignment 1.

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// 1.“Write a C program to enter two numbers and find their sum.”

#include<stdio.h>
int main(){
    int a,b;
    printf("Enter A:");
    scanf("%d", &a);

    printf("Enter B:");
    scanf("%d", &b);

    printf("sum :%d\n", a+b);

    return 0;
}

// 2.“Write a C program to enter two numbers and perform all arithmetic opera

#include<stdio.h>
int main(){
    int a,b;
    printf("Enter a:");
    scanf("%d", &a);

    printf("Enter b:");
    scanf("%d", &b);

    printf("Addition :%d\n", a+b);
    printf("Subtraction :%d\n", a-b);
    printf("Multiplication :%d\n", a*b);
    printf("Divide :%d\n", a/b);
    printf("Module :%d\n", a%b);

    return 0;
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}

// 3. program to enter length and breadth of a rectangle and find its perimeter.

#include<stdio.h>
int main(){
   int length, breadth,perimeter;

   printf("Enter length :");
   scanf("%d", &length);

   printf("Enter breadth :");
   scanf("%d", &breadth);

   perimeter=2*(length+breadth);

   printf("Perimeter of rectangle is :%d\n", perimeter);

   return 0;
}

// 4. program to enter length and breadth of a rectangle and find its area.

#include<stdio.h>
int main(){
   int length, breadth,area;

   printf("Enter length :");
   scanf("%d", &length);
   printf("Enter breadth :");
   scanf("%d", &breadth);

   area=length*breadth;

   printf("area of rectangle is :%d\n", area);

   return 0;
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}

// 5. program to enter radius of a circle and find its diameter, circumference ar

#include<stdio.h>
int main(){
   int radius;
   float diameter,circumference,area;

   printf("Enter radius :");
   scanf("%d", &radius);

   diameter=2*radius;
   circumference=2*3.14*radius;
   area=3.14*radius*radius;

   printf("diameter of circle :%.2f\n", diameter);
   printf("circumference of circle :%.2f\n", circumference);
   printf("area of circle :%.2f\n", area);

   return 0;
}

// 6. program to enter length in centimeter and convert it into meter and kilome

#include<stdio.h>
int main(){
   float centimeter, meter, kilometer;

   printf("Enter length in centimeter :");
   scanf("%f", &centimeter);

   meter=centimeter/100;
   kilometer=centimeter/100000;

   printf("Meter :%.2f\n", meter);
   printf("kilometer :%.2f\n", kilometer);
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    return 0;
}

// 7. program to enter temperature in Celsius and convert it into Fahrenheit.

#include<stdio.h>
int main(){
    float celsius,fahrenheit;

    printf("Enter temp :");
    scanf("%f", &celsius);

    fahrenheit=(celsius*9/5)+32;

    printf("tem in fahrenheit :%.2f\n", fahrenheit);

    return 0;
}

// 8. Write a C program to enter temperature in Fahrenheit(°F) and convert it in

#include<stdio.h>
int main(){
    float celsius,fahrenheit;

    printf("Enter temp :");
    scanf("%f", &fahrenheit);

    celsius=(fahrenheit-32)*5/9;

    printf("tem in celsius :%.2f\n", celsius);

    return 0;
}

// 9. C program to convert days into years, weeks and days.

#include<stdio.h>
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int main(){
   int days, years, weeks,days_left;

   printf("Enter days :");
   scanf("%d",&days);

   years = days / 365;
   weeks = (days % 365) / 7;
   days_left = (days % 365) % 7;

   printf("years :%d\n", years);
   printf("weeks :%d\n", weeks);
   printf("days_left :%d\n", days_left);

   return 0;
}

// 11.C program to enter any number and calculate its square root.

#include<stdio.h>
#include<math.h>

int main(){
   float num,square_root;
   printf("Enter number :");
   scanf("%f", &num);

   square_root= sqrt(num);

   printf("square root of %.2f is %.2f\n", num, square_root);

   return 0;
}

// 12.program to enter two angles of a triangle and find the third angle.

#include<stdio.h>
int main(){
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    float angle1,angle2,third_Angle;

    printf("Enter x:");
    scanf("%f",&angle1);

    printf("Enter y:");
    scanf("%f", &angle2);

    third_Angle=180-(angle1+angle2);

    printf("Third angle of triangle is:%.2f\n", third_Angle);

    return 0;
}

// 13.program to enter base and height of a triangle and find its area.

#include<stdio.h>
int main(){

float base,height,area;

printf("Enter base:");
scanf("%f",&base);
printf("Enter height:");
scanf("%f",&height);

area=(1.0/2.0)*base*height;

printf("area of a triangle is:%.2f\n", area);

return 0;
}

// 14.program to calculate area of an equilateral triangle.

#include<stdio.h>
#include<math.h>
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int main(){
    float side,area;
    printf("Enter a side :");
    scanf("%f", &side);

    area=(sqrt(3)/4) * side * side;

    printf("Area of equilateral triangle is:%.2f\n", area);

    return 0;
}

// 15.program to enter marks of five subjects and calculate total, average and p

#include<stdio.h>
int main(){
    int mat,phy,eng,hin,chem;
    float total,average,percentage;

    printf("Enter maths marks:");
    scanf("%d",&mat);
    printf("Enter physics marks:");
    scanf("%d",&phy);
    printf("Enter english marks:");
    scanf("%d",&eng);
    printf("Enter hindi marks:");
    scanf("%d",&hin);
    printf("Enter chemistry marks:");
    scanf("%d",&chem);

    total=mat+phy+eng+hin+chem;
    average=total/5;
    percentage=total/500.0*100;

    printf("Total marks:%.2f\n",total);
    printf("Average of five subject:%.2f\n",average);
    printf("percentage:%.2f%%\n",percentage);
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    return 0;
}

// 16.program to enter P, T, R and calculate Simple Interest.

#include<stdio.h>
int main(){
    float principle,time,rate,simple_interest;

    printf("Enter principle:");
    scanf("%f",&principle);
    printf("Enter time:");
    scanf("%f",&time);
    printf("Enter rate:");
    scanf("%f",&rate);

    simple_interest=principle*time*rate/100;

    printf("Simple intrest :%.2f\n",simple_interest);

    return 0;
}

// 17.program to enter P, T, R and calculate Compound Interest.

#include<stdio.h>
#include<math.h>
int main(){
    float principle,time,rate,compound_interest;

    printf("Enter principle:");
    scanf("%f",&principle);
    printf("Enter time:");
    scanf("%f",&time);
    printf("Enter rate:");
    scanf("%f",&rate);

    compound_interest=principle*pow((1+rate/100),time) - principle;
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    printf("Compound interest :%.2f\n",compound_interest);

    return 0;
}
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