12/19/24

programs

#add,sub,div,mul on given interger

#include<stdio.h>

int main(){

int a,b;

printf("enter a number a");

scanf("%d",&a);

printf("enter a number b");

scanf("%d",&b);

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

printf("sub =%d\n",a-b);

printf("mul =%d\n",a\*b);

printf("div =%d\n",a/b);

return 0;

}

#find avg

#include<stdio.h>

int main(){

int a,b,c,d,e,sum,avg;

printf("enter 5 numbers\n");

scanf("%d %d %d %d %d",&a,&b,&c,&d,&e);

sum=a+b+c+d+e;

avg=sum/5;

printf("avg=%d",avg);

}

#area and perimeter

#include<stdio.h>

int main(){

int length,width,area,perimeter;

printf("Enter the length");

scanf("%d",&length);

printf("Enter the width");

scanf("%d",&width);

printf("area=%d\n",length\*width);

printf("perimeter=%d",2\*(length+width));

}

#principal amount

#include<stdio.h>

int main(){

int p,r,n;

printf("enter the principal amount");

scanf("%d",&p);

printf("enter the rate of intrest");

scanf("%d",&r);

printf("enter the no of years");

scanf("%d",&n);

int result=p\*(1+(r/100))^n;

printf("the amount is %d",&result);

}

#celcius to farenheit

#include<stdio.h>

int main(){

int t;

printf("enter the temperature in celcius");

scanf("%d",&t);

printf("the temperature in farenheit=%df",(t\* 9/5) + 32);

}

#swapping of variables

#include<stdio.h>

int main(){

int a,b;

printf("enter the values of a and b");

scanf("%d %d",&a,&b);

a=a+b;

b=a-b;

a=a-b;

printf("the value of a=%d and b=%d",a,b);

}

#sum of digits of 3 digit number

#include<stdio.h>

int main(){

int num,sum=0;

printf("enter a 3 digit number:");

scanf("%d",&num);

while(num>0){

int last\_digit=num%10;

sum=sum+last\_digit;

num=num/10;

}

printf("the sum is %d",sum);

}

#hypotenuse

#include <stdio.h>

#include <math.h>

int main() {

float side1, side2, hypotenuse;

printf("Enter the lengths of the two sides (legs) of the triangle: ");

scanf("%f %f", &side1, &side2);

hypotenuse = sqrt(side1 \* side1 + side2 \* side2);

printf("The hypotenuse of the triangle is: %.2f\n", hypotenuse);

return 0;

}

#area and circumference

#include<stdio.h>

#include<math.h>

int main(){

int r;

float pi=3.14;

printf("enter the radius");

scanf("%d",&r);

printf("the area is:%f\n",pi\*r\*r);

printf("the circumference is:%f\n",2\*pi\*r);

}

#profit or loss

#include<stdio.h>

int main(){

int cp,sp;

printf("enter the cost price:");

scanf("%d",&cp);

printf("enter the selling price:");

scanf("%d",&sp);

int result=sp-cp;

if(result>0){

printf("the profit is %d",sp-cp);

}

else if(result<0){

printf("the profit is %d",cp-sp);

}

}

#greater or smaller

#include<stdio.h>

int main(){

int a,b;

printf("enter 2 integers");

scanf("%d %d",&a,&b);

if(a>b){

printf("%d is greater",a);

}else if(b>a){

printf("%d is greater",b);

}else{

printf("%d and %d are equal",a,b);

}

}

#voting

#include<stdio.h>

int main(){

int age;

printf("enter your age");

scanf("%d",&age);

if(age>18){

printf("eligible to vote");

}else{

printf("not eligible");

}

}

#valid triangle

#include<stdio.h>

int main(){

int a,b,c;

printf("enter the 3 sides of triangle");

scanf("%d%d%d",&a,&b,&c);

if((a+b)>c || (b+c)>a || (a+b)>c){

printf("valid traingle");

}else{

printf("not a valid traingle");

}

}

#grade comparision

#include<stdio.h>

int main(){

int a,b;

printf("enter mark of 2 students");

scanf("%d %d",&a,&b);

if(a>b){

printf("a has greater mark",a);

}else if(b>a){

printf("b has greater mark",b);

}else{

printf("both have equal marks");

}

}

#greater number

#include<stdio.h>

int main(){

int a, b, c;

printf("Enter 3 numbers a, b, c: ");

scanf("%d %d %d", &a, &b, &c);

if(a > b && a > c){

printf("a is greater\n");

}

else if(b > a && b > c){

printf("b is greater\n");

}

else{

printf("c is greater\n");

}

return 0;

}

#leap year or not

#include<stdio.h>

int main(){

int year;

printf("enter the year");

scanf("%d",&year);

if((year%4==0 && year%100!=0) || year%400==0){

printf("leap year");

}else{

printf("Not a leap year");

}

}

#temperature alert

#include<stdio.h>

int main(){

int temp;

printf("enter the temperature");

scanf("%d",&temp);

if(temp>40){

printf("temp exceeded 40 degree!");

}else{

printf("normal");

}

}

#number divisibility

#include<stdio.h>

int main(){

int a,b;

printf("enter 2 numbers");

scanf("%d%d",&a,&b);

int result=a%b;

if (b != 0 && (a / b) \* b == a){

printf("divisible");

}else{

printf("not divisible");

}

}

#student eligibility

#include<stdio.h>

int main(){

int age,grade;

printf("enter the student age");

scanf("%d",&age);

printf("enter the student grade");

scanf("%d",&grade);

if(age>18 && grade>50){

printf("eligible");

}else{

printf("not eligible");

}

}

#valid password length?

#include<stdio.h>

int main(){

int leng;

printf("enter the password");

scanf("%d",&leng);

if(leng>=8){

printf("valid password");

}else{

printf("length is less than 8");

}

}