Agegrp

#include <stdio.h>

int main() {

int a,mod;

printf("enter the age:",a);

scanf("%d",&a);

if ((a>=1)&&(a<=10)){

printf("an adolescent");

}

else if((a>10)&&(a<=18)){

printf("a teenager");

}

else{

printf("an adult");

}

OddEve

#include <stdio.h>

int main() {

int a,mod;

printf("enter the number:",a);

scanf("%d",&a);

mod=a%2;

if(mod==0){

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

}

else{

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

}

SquareCube

#include <stdio.h>

int main() {

int a;

printf("enter the number:",a);

scanf("%d",&a);

printf("%d is the square",a\*a);

printf("\n%d is the cube",a\*a\*a);

return 0;

}

Area of triangle

#include <stdio.h>

int main() {

float a,b,c,s,A;

printf("enter the size of the base:",b);

scanf("%f",&b);

printf("enter the size of hypotenuse:",c);

scanf("%f",&c);

printf("enter the size of the 3rd side:",a);

scanf("%f",&a);

s=(a+b+c)/2;

A=(s\*(s-a)\*(s-b)\*(s-c))\*1.414;

printf("area of the triangle is %f",A);

return 0;

}

Area of circle

#include <stdio.h>

int main() {

float r,A;

printf("enter the radius of the circle:",r);

scanf("%f",&r);

A=3.14\*r\*r;

printf("area of the circle is %f",A);

return 0;

}

For loop

#include <stdio.h>

int main() {

int i;

for(i=1;i<=20;i++){

printf("\n%d",i);

}

return 0;

}

Inverted for loop

#include <stdio.h>

int main() {

int i;

for(i=10;i>=1;i--){

printf("\n%d",i);

}

}

While loop

#include <stdio.h>

int main() {

int i=0;

while(i<=10){

printf("\n%d",i);

i++;

}

}

Inverted while loop

#include <stdio.h>

int main() {

int i=10;

while(i>=1){

printf("\n%d",i);

i--;

}

}

Do while loop

#include <stdio.h>

int main() {

int i=0;

do{

printf("\n%d",i);

i++;

}

while(i<=10);

}

Inverted do while loop

#include <stdio.h>

int main() {

int i=20;

do{

printf("\n%d",i);

i--;

}

while(i>=1);

}

Simple interest

#include <stdio.h>

int main() {

float s,p,r,t;

printf("enter the principal amount:",p);

scanf("%f",&p);

printf("enter the rate:",r);

scanf("%f",&r);

printf("enter the time:",t);

scanf("%f",&t);

s=(p\*r\*t)/100;

printf("%f is the simple interest",s);

}

Celcius to Fahrenheit

#include <stdio.h>

int main() {

int f,c;

printf("enter the degree centigrade:",c);

scanf("%d",&c);

f=((9/5)\*c)+32;

printf("%d is the value in farenheit.",f);

}

% in 5 subjects

int main() {

float m,ch,ph,e,co,p;

printf("enter the marks in chemistry /100:",ch);

scanf("%f",&ch);

printf("enter the marks in maths /100:",m);

scanf("%f",&m);

printf("enter the marks in physics /100:",ph);

scanf("%f",&ph);

printf("enter the marks in english /100:",e);

scanf("%f",&e);

printf("enter the marks in computersc /100:",co);

scanf("%f",&co);

p=((m+ch+ph+e+co)/500)\*100;

printf("%f is the required percentage",p);

}

* or -

#include <stdio.h>

int main() {

float a;

printf("enter the number:n",a);

scanf("%f",&a);

if(a>0){

printf("the number is positive");

}

else if(a<0){

printf("the number is negative");

}

else{

printf("the number is neither - nor +");

}

}

Leap year

#include <stdio.h>

int main() {

int y;

printf("enter the year:",y);

scanf("%d",&y);

if(y%4==0){

printf("%d is a leap year",y);

}

else{

printf("%d is not a leap year",y);

}

}

Max from given 3 sums

#include <stdio.h>

int main() {

int a,b,c;

printf("enter the 1st number:",a);

scanf("%d",&a);

printf("enter the 2nd number:",b);

scanf("%d",&b);

printf("enter the 3rd number:",c);

scanf("%d",&c);

if (a>b){

if (a>c){

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

}

}

else if(b>a){

if(b>c){

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

}

}

else{

printf("%d enter an appropriate number.",c);

}

}

Prime number

#include <stdio.h>

int main() {

int i,a,flag=0;

printf("enter the number:",a);

scanf("%d",&a);

if((a==0)&&(a==1))

flag=1;

for(i=2;i<=a/2;++i){

if(a%i==0){

flag=1;

break;

}

}

if(flag==1){

printf("it is not a prime number.");

}

else{

printf("it is a prime number.");

}

}

% in 5 subjects with classes

#include <stdio.h>

int main() {

float m,ch,ph,e,co,p;

printf("enter the marks in chemistry /100:",ch);

scanf("%f",&ch);

printf("enter the marks in maths /100:",m);

scanf("%f",&m);

printf("enter the marks in physics /100:",ph);

scanf("%f",&ph);

printf("enter the marks in english /100:",e);

scanf("%f",&e);

printf("enter the marks in computersc /100:",co);

scanf("%f",&co);

p=((m+ch+ph+e+co)/500)\*100;

printf("%f is the required percentage",p);

if(p>75){

printf("\nDistinction");

}

else if((p>60)&&(p<=75)){

printf("\nFirst Class");

}

else if((p>50)&&(p<=60)){

printf("\nSecond class");

}

else if((p>35)&&(p<=50)){

printf("\nPass class");

}

else{

printf("\nFail");

}

}

Weekdays with switch

#include <stdio.h>

int main() {

int a;

printf("1.Monday");

printf("\n2.Tuesday");

printf("\n3.Wednesday");

printf("\n4.Thursday");

printf("\n5.Friday");

printf("\n6.Saturday");

printf("\n7.Sunday");

printf("\nenter the number:",a);

scanf("%d",&a);

switch(a){

case 1:

printf("Monday");

break;

case 2:

printf("tuesday");

break;

case 3:

printf("Wednesday");

break;

case 4:

printf("Thurday");

break;

case 5:

printf("Friday");

break;

case 6:

printf("Saturday");

break;

case 7:

printf("sunday");

break;

default:

printf("enter appropriate number");

break;

}

}

Add,Sub,Mul,Div with switch

#include <stdio.h>

int main() {

int a,b,c;

printf("1.Addition");

printf("\n2.Substraction");

printf("\n3.Multiplication");

printf("\n4.Division");

printf("\nenter your choice:",c);

scanf("%d",&c);

printf("enter the 1st number:",a);

scanf("%d",&a);

printf("enter the 2nd number:",b);

scanf("%d",&b);

switch(c){

case 1:

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

break;

case 2:

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

break;

case 3:

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

break;

case 4:

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

break;

default:

printf("enter appropriate number");

break;

}

}

Area of tri,rec,cir with if statements

#include <stdio.h>

int main() {

int a,b,c;

printf("1.Addition");

printf("\n2.Substraction");

printf("\n3.Multiplication");

printf("\n4.Division");

printf("\nenter your choice:",c);

scanf("%d",&c);

printf("enter the 1st number:",a);

scanf("%d",&a);

printf("enter the 2nd number:",b);

scanf("%d",&b);

switch(c){

case 1:

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

break;

case 2:

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

break;

case 3:

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

break;

case 4:

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

break;

default:

printf("enter appropriate number");

break;

}

}

51 to 60 while loop

#include <stdio.h>

int main() {

int i=51;

while(i<=60){

printf("\n%d",i);

i++;

}

}

100 to 81 do while

#include <stdio.h>

int main() {

int i=100;

do {

printf("\n%d",i);

i--;

}

while(i>=81);

}

Factorial

#include <stdio.h>

int main() {

int i,a,fac=1;

printf("enter the number:",a);

scanf("%d",&a);

if((a==1)||(a==0)){

printf("the factorial is 1");

}

for(i=1;i<=a;i++){

fac=fac\*i;

}

printf("the factorial is %d",fac);

}

Fibonacci Series

#include <stdio.h>

int main() {

int i,a;

int t1=0,t2=1;

int nt=t1+t2;

printf("enter the number of terms:",a);

scanf("%d",&a);

printf("Fibonacci Series: %d, %d, ", t1, t2);

for(i=3;i<=a;i++){

printf("%d ,",nt);

t1=t2;

t2=nt;

nt=t1+t2;

}

}

Table

#include <stdio.h>

int main() {

int a,i;

printf("enter the number:",a);

scanf("%d",&a);

for(i=1;i<=10;i++){

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

}

}

\* pyramid

#include <stdio.h>

int main() {

int a,i,j;

printf("enter the number:",a);

scanf("%d",&a);

for(i=0;i<a;i++){

for(j=0;j<=i;j++){

printf("\*");

}

printf("\n");

}

}

Num pyramid

#include <stdio.h>

int main() {

int a,i,j;

printf("enter the number:",a);

scanf("%d",&a);

for(i=1;i<=a;++i){

for(j=1;j<=i;++j){

printf("%d ", j);

}

printf("\n");

}

}

Inverted pyramid

#include <stdio.h>

int main() {

int a,i,j;

printf("enter the number:",a);

scanf("%d",&a);

for(i=1;i<=a;++i){

for(j=1;j<=(a-i);++j){

printf(" ");

}

for(j=1;j<=i;j++){

printf("\*");

}

printf("\n");

}

}

Triangle pattern

#include <stdio.h>

int main() {

int a,i,j,k=0;

printf("enter the number:",a);

scanf("%d",&a);

for(i=1;i<=a;++i,k=0){

for(j=1;j<=(a-i);++j){

printf(" ");

}

while(k!=2\*i-1){

printf("\*");

++k;

}

printf("\n");

}

}

Array print

#include <stdio.h>

int main() {

int i;

int num[5]={8,9,7,6,5};

for(i=0;i<5;i++){

printf("%d\n",num[i]);

}

}

Eve, odd present in array

#include <stdio.h>

int main() {

int i,odd=0,eve=0;

int num[10]={8,9,7,6,5,2,4,6,1,0};

for(i=0;i<10;i++){

if(num[i]%2==0){

eve=eve+1;

}

else{

odd=odd+1;

}

}

printf("total even numbers:%d",eve);

printf("\ntotal odd numbers:%d",odd);

}

Sum and avg of array elements

#include <stdio.h>

int main() {

int i,s=0,av;

int num[10]={8,9,7,6,5,2,4,6,1,0};

for(i=0;i<10;i++){

s=s+num[i];

}

av=s/10;

printf("sum of numbers:%d",s);

printf("\naverage:%d",av);

}

Max from array

#include <stdio.h>

int main() {

int i,max=0;

int num[10]={8,9,76,45,5,23,46,93,1,75};

for(i=0;i<10;i++){

if(max<num[i]){

max=num[i];

}

}

printf("%d",max);

}

Print from array by user given position

#include <stdio.h>

int main() {

int i,a;

int num[5]={8,46,93,16,75};

printf("enter the position:",a);

scanf("%d",&a);

printf("%d",num[a]);

}

Printf from 2D array

#include <stdio.h>

int main() {

int i,j;

int num[3][3]={{8,46,5},{93,16,6},{75,34,9}};

for(i=0;i<3;i++){

for(j=0;j<3;j++){

printf("char[%d][%d]=%d\n",i,j,num[i][j]);

}

}

}

Joining two strings

#include <stdio.h>

#include <string.h>

int main() {

char st[20]="HELLO EVERYONE";

char ab[20]="HOHO";

printf("lower case string:%s",strcat(st,ab));

}

Ascending order sort

#include <stdio.h>

int main() {

int i,j,temp;

int a[5]={3,8,5,6,9};

for(i=0;i<5;++i){

for(j=i+1;j<5;++j){

if(a[i]>a[j]){

temp=a[i];

a[i]=a[j];

a[j]=temp;

}

}

}

for(i=0;i<5;i++){

printf("%d\t",a[i]);

}

}

Descending order sort

#include <stdio.h>

int main() {

int i,j,temp;

int a[5]={3,8,5,6,9};

for(i=0;i<5;++i){

for(j=i+1;j<5;++j){

if(a[i]<a[j]){

temp=a[i];

a[i]=a[j];

a[j]=temp;

}

}

}

for(i=0;i<5;i++){

printf("%d\t",a[i]);

}

}

2nd smallest number

#include <stdio.h>

int main() {

int i,j,temp;

int a[5]={3,8,5,6,9};

for(i=0;i<5;++i){

for(j=i+1;j<5;++j){

if(a[i]<a[j]){

temp=a[i];

a[i]=a[j];

a[j]=temp;

}

}

}

printf("second smallest number is %d",a[3]);

}

Print from user given position in array

#include <stdio.h>

int main() {

int i,p,n,a[10];

printf("enter the size of the array:",n);

scanf("%d",&n);

printf("enter the elements:",a);

for(i=0;i<n;++i){

scanf("%d",&a[i]);

}

printf("enter the position of the element:",p);

scanf("%d",&p);

printf("the element is %d",a[p-1]);

}

% in 5 subjects with division

#include<iostream>

using namespace std;

int main() {

float m,ch,ph,e,co,p;

cout<<"enter the marks in chemistry /100:";

cin>>ch;

cout<<"enter the marks in maths /100:";

cin>>m;

cout<<"enter the marks in physics /100:";

cin>>ph;

cout<<"enter the marks in english /100:";

cin>>e;

cout<<"enter the marks in computersc /100:";

cin>>co;

p=((m+ch+ph+e+co)/500)\*100;

cout<<p<<" is the required percentage";

if(p>75){

cout<<"\nDistinction";

}

else if((p>60)&&(p<=75)){

cout<<"\nFirst Class";

}

else if((p>50)&&(p<=60)){

cout<<"\nSecond class";

}

else if((p>35)&&(p<=50)){

cout<<"\nPass class";

}

else{

cout<<"\nFail";

}

}