1. Write a program to calculate sum on numbers (max 10). If the user enters a negative number loop twerminates.
2. Write a C program that reads in 2 numbers x and y and prints the *largest* common divisor of both x and y [Using the concept of Break]
3. Write a program to calculate sum on numbers (max 10). If the user enters a negative number, its not added to the result. [Using the concept of continue]
4. Write a C program that reads in an integer n and prints all its divisors [Using the concept of continue]
5. Write a program to print days of the week [ Using switch case]
6. Write a program to print **corresponding month of the year** [ Using switch case]
7. Write a program To find if the entered character is a digit or not [ Using switch case]
8. Write a program in C which is a Menu-Driven Program to compute the area of the various geometrical shape. [Using switch case]
9. Write a program in C which is a Menu-Driven Program to perform a simple calculation on any two numbers. (Addition, subtraction, multiplication, division) [Using switch case]
10. Write a program to Simulate the traffic lights [Using Switch Case]
11. Write a program to calculate xy using **inbuilt power function** .
12. Determine sin(x), cos(x) and tan(x) values for x=0, x=30, x=60, x=90.

The output should be displayed as follows

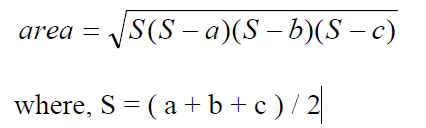
X=0 x=30 x=60 x=90

Sin (x)

cos(x)

tan(x)

1. getc(), getch(), getchar() and getche() are some of the functions related to characters. Determine what is their functionality. Create a program including all these inbuilt functions
2. Write a program to check whether year is leap year or not using functions
3. Write a program to find sum of the squares of first n numbers and to calculate its sum using functions.
4. Write a program to demonstrate the following functions
5. Function with no arguments and no return type.
6. Function with arguments and no return type
7. Function with no arguments and return type
8. Function with arguments and return type
9. Write a function which receives a float and an int from main( ), finds the product of these two and returns the product which is printed through main( ). [Hint: Function with arguments and with return type]
10. Write a function that receives 5 integers and returns the sum, average and standard deviation of these numbers. Call this function from main( ) and print the results in main( ). [Hint: Function with arguments and with return type]
11. Write a function that receives marks received by a student in 3 subjects and returns the average and percentage of these marks. Call this function from main( ) and print the results in main( ). [Hint: Function with arguments and with return type]
12. Write a recursive function to obtain the first 25 numbers of a Fibonacci sequence. In a Fibonacci sequence the sum of two successive terms gives the third term. Following are the first few terms of the Fibonacci sequence: 1 1 2 3 5 8 13 21 34 55 89... [Hint: Function with no arguments and no return type]
13. If the lengths of the sides of a triangle are denoted by a, b, and c, then area of triangle is given by . Wtite a program using functions



1. Write a Program to find average marks obtained by a class of 30 students in a test.
2. Five numbers are entered from the keyboard into an array. The number to be searched is entered through the keyboard by the user. Write a program to find if the number to be searched is present in the array and if it is present, display the number of times it appears in the array.
3. Ten numbers are entered from the keyboard into an array. Write a program to find out how many of them are positive, how many are negative, how many are even and how many odd.
4. Write a program to find largest and smallest element in an array.
5. Write a program to increment the array elements by 1.
6. Write a program to calculate average marks of 5 students in 3 subjects English, hindi, maths and .Print the average marks of each student along with his roll no
7. Write a program to copy the contents of one array into another in the reverse order using call by value
8. Write a program to reverse the contents of the array using call by reference.
9. Write a program which performs the following tasks: − initialize an integer array of 5 elements in **main( ) .** − pass the entire array to a function **modify( ) .** − in **modify( )** multiply each element of array by 3 . − return the control to **main( )** and print the new array elements in **main( )**
10. Find the smallest number in an array

A) sing Call by Value – Passing element by element,

1. Call by Reference – Passing element by element,
2. Passing Complete Array
3. Write a program that converts
   1. all lowercase characters in a given string to its equivalent uppercase character.
   2. Length of the string
   3. Compare two strings
   4. Copy one string to another
   5. Concatenate two strings
4. Write a program that demonstrates how to store the elements entered by user in a 2d array and how to display the elements of a two dimensional array.
5. Write a Program to Add two Matrices
6. Write a program to pass an array to a function and find the largest and smallest element and print them in the main program

1.

# include<stdio.h>

int main()

{

int i,num,sum=0;

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

{

printf("Enter a number\n");

scanf("%d",&num);

if(num>=0)

{

sum=sum+num;

}

else{

printf("The sum of numbers you entered before termination is %d\n",sum);

}

}

return 0;

}

2.

# include<stdio.h>

int main(){

int x,y,lcm;

printf("Enter the first number you want\n");

scanf("%d",&x);

printf("Enter the second number you want\n");

scanf("%d",&y);

lcm = (x > y) ? x : y;

while (1) {

if (lcm % x == 0 && lcm % y == 0) {

printf("The LCM of %d and %d is %d.", x, y, lcm);

break;

}

++lcm;

}

return 0;

}

3. # include<stdio.h>

int main()

{

int i,num,sum=0;

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

{

printf("Enter a number\n");

scanf("%d",&num);

if(num>=0)

{

sum=sum+num;

}

else{

continue;

printf("The sum of numbers you entered is %d\n",sum);

}

}

return 0;

}

4.

# include<stdio.h>

int main(){

long int product=1;

int count,num;

printf("Enter a number whose factorial you want ");

scanf("%d",&num);

for(count=num;count>=1;count--)

{

product=product\*count;

printf("%ld is the factorial of %d",product,num);

}

return 0;

}

5.

# include<stdio.h>

void main(){

int day;

printf("Enter the no. of day");

scanf("%d",&day);

switch(day)

{

case 1: printf("Sunday\n");

break;

case 2: printf("Monday\n");

break;

case 3: printf("Tuesday\n");

break;

case 4: printf("Wednesday\n");

break;

case 5: printf("Thursday\n");

break;

case 6: printf("Friday\n");

break;

case 7: printf("Saturday\n");

break;

default: printf("Error-404");

}

}

6.

# include<stdio.h>

void main(){

int month;

printf("Enter the number of month");

scanf("%d",&month);

switch(month){

case 1: printf("January\n");break;

case 2: printf("Febuary\n");break;

case 3: printf("March\n");break;

case 4: printf("April\n");break;

case 5: printf("May\n");break;

case 6: printf("June\n");break;

case 7: printf("July\n");break;

case 8: printf("August\n");break;

case 9: printf("September\n");break;

case 10: printf("October\n");break;

case 11: printf("November\n");break;

case 12: printf("December\n");break;

default: printf("Error 404");

}

}

7.

# include<stdio.h>

void main(){

char c;

scanf("%c",&c);

switch(c){

case'0':

case'1':

case'2':

case'3':

case'4':

case'5':

case'6':

case'7':

case'8':

case'9': printf("%c is a Digit\n",c); break;

default: printf("%c are you mad i told you to enter digit\n",c);}

}

8.

# include<stdio.h>

void main(){

int choice,r,l,w,b,h;

float area;

printf("Input 1,2,3 as choice for calculating area of circle,rectangle,triangle repectively");

scanf("%d",&choice);

switch(choice){

case 1: printf("Input radius of the circle:");

scanf("%d",&r);

area=3.14\*r\*r;

break;

case 2: printf("Input length and width of the rectangle:");

scanf("%d %d",&l,&w);

area=l\*w;

break;

case 3: printf("Input the base and height of the triangle:");

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

area=0.5\*b\*h;

break;

}

printf("The area is : %f\n",area);

}

9.

# include<stdio.h>

void main(){

int choice:

choice=0;

do

{

printf("my menu\n\n");

printf("1-Find number is Prime or not\n");

printf("2-Find the number is Armstrong or not\n");

printf("3-Find the Factorial of number\n");

printf("4-Exit\n");

printf("Enter your choice:");

scanf("%d",&choice);

switch(choice){

case 1: printf("Prime or Not\n");

int n, i, flag = 0;

printf("Enter a positive integer: ");

scanf("%d", &n);

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

if (n % i == 0) {

flag = 1;

break;

}

}

if (n == 1) {

printf("1 is neither prime nor composite.");

}

else {

if (flag == 0)

printf("%d is a prime number.", n);

else

printf("%d is not a prime number.", n);

}

break;

case 2: printf("Armstrong Number or Not\n");

int num,b,sum=0,num1,count;

printf("Enter a number:");

scanf("%d",&num);

num1=num;

while(num)

{

b=num%10;

num=num/10;

sum=sum+b\*b\*b;

}

if(num1==sum)

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

else

printf("%d is not armstrong",num1);

break;

case 3: printf("Factorial of the number\n");

long int product=1;

int count,num;

printf("Enter a number whose factorial you want ");

scanf("%d",&num);

for(count=num;count>=1;count--)

{

product=product\*count;

printf("%ld is the factorial of %d",product,num);

}

break;

case 4: printf("EXIT\n");

return 0;

default: printf("Invalid choice!\n");

break;

}

while((choice>=1)&(choice<=4));}

}

10.

# include<stdio.h>

void main(){

char colour;

printf("Enter the colour of the light(R,G,Y):");

scanf("%c",&colour);

switch(colour){

case'R':

case'r': printf("STOP!\n");

break;

case'G':

case'g': printf("GO!\n");

break;

case'Y':

case'y': printf("CAUTION\n");

break;

}

}

11.#include <math.h>

#include <stdio.h>

int main() {

double base, exp, result;

printf("Enter a base number: ");

scanf("%lf", &base);

printf("Enter an exponent: ");

scanf("%lf", &exp);

result = pow(base, exp);

printf("%.1lf^%.1lf = %.2lf", base, exp, result);

return 0;

}

12. # include <stdio.h>

# include <math.h>

void main()

{

float r ;

int i ;

char ch ;

printf("- - - - - - - - - - - - - - - - - -") ;

printf("\n Angle \t Sin \t Cos \t Tan \n") ;

printf("- - - - - - - - - - - - - - - - - -") ;

for(i = 0 ; i <= 180 ; i = i + 30)

{

r = i \* 3.14159 / 180 ;

printf("\n%3d \t %5.2f \t %5.2f \t %5.2f\n",

i, sin(r), cos(r), tan(r));

}

printf("- - - - - - - - - - - - - - - - - -") ;

}

13. //get c

#include <stdio.h>

int main()

{

printf("%c", getc(stdin));

return(0);

}

//get ch

#include <stdio.h>

int main()

{

printf("%c", getch());

return 0;

}

//getche

#include <stdio.h>

int main()

{

printf("%c", getche());

return 0;

}

//getchar

#include <stdio.h>

int main()

{

printf("%c", getchar());

return 0;

}

14.

#include<stdio.h>

int leap(int y );

int main()

{

int year;

printf("Enter any year : ");

scanf("%d", &year);

if(leap(year))

printf("\n%d is leap year",year);

else

printf("\n%d is not leap year",year);

return 0;

}

int leap(int y)

{

if((y%400==0 && y%100==0)||(y%4==0))

return 1;

else

return 0;

}

15.

# include<stdio.h>

int num(int y);

int main(){

int x;

printf("Enter the number upto you want :");

scanf("%d",&x);

printf("%d is the result",num(x));

return 0;

}

int num(int y)

{

int u;

if(y==0)

return 0;

else{

u = y\*y+num(y-1);

return(u);

}

}

16.

// function with no argument and no return

# include<stdio.h>

void greatNum();

int main(){

greatNum();

return 0;

}

void greatNum()

{ int i,j;

printf("Enter 2 numbers that ");

scanf("%d %d", &i, &j);

if(i>j)

{ printf("The greater number is : %d",i);}

else{

printf("The greater number is : %d" , j);}

}

//function with argument and no return

# include<stdio.h>

void checkPrimeAndDisplay(int n);

int main(){

int n;

printf("Enter a positive intger");

scanf("%d",&n);

checkPrimeAndDisplay(n);

return 0;

}

void checkPrimeAndDisplay(int n);

{ int i,flag =0;

for(i=2;i<=n/2;++i)

{

if(n%i=0){

flag=1;

break;}}

if(flag==1) printf("%d is not a prime number",n);

else printf("%d is a prime number",n);

}

//function with no argument and return

# include<stdio.h>

int sum();

int main()

{

int num;

num = sum();

printf("\n Sum of the numbers are %d",num);

return 0;

}

int sum()

{

int a =50, b = 80, s;

s = a+b;

return s;

}

// function with argument and return

# include<stdio.h>

int add(int x,int y);

void main()

{

int a,b,c;

printf("Enter two Number = ");

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

c=add(a,b);

printf("The sum of two number is %d",c);

}

int add(int x,int y)

{

int c;

c = x+y;

return(c);

17.

include <stdio.h>

float product(float i, int j)

{

float pr;

pr = i\*j;

return pr;

}

int main( )

{

float a, p;

int b;

printf("Enter Float Value :");

scanf("%f",&a);

printf("\nEnter Integer Value :");

scanf("%d",&b);

p = product(a,b);

printf("\nThe product is %.2f\n", p);

return 0;

}

18.

19.# include<stdio.h>

# include<math.h>

int sum(int x,int p,int q,int r,int s );

float avg(int y);

float s\_d(float z,int g,int h,int i,int j,int k);

int main(){

int k,a,b,c,d,e;

float l,m;

printf("Enter 5 numbers you want");

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

k=sum(a,b,c,d,e);

l=avg(k);

m=s\_d(l,a,b,c,d,e);

printf("The sum of these numbers is:%d\n",k);

printf("The average of these numbers is:%f\n",l);

printf("The standard deviation of these numbers is:%f\n",m);

return 0;}

int sum(int x,int p,int q,int r,int s ){

int su;

su = x+p+q+r+s;

return(su);}

float avg(int y){

float av;

av = y/5;

return(av);}

float s\_d(float z,int g,int h,int i,int j,int k){

float sd;

sd = sqrt(((g-z)\*(g-z)+(h-z)\*(h-z)+(i-z)\*(i-z)+(j-z)\*(j-z)+(k-z)\*(k-z))/5.0);

return(sd);

}

20.

# include<stdio.h>

float avg(int s,int u,int m);

float per(int a,int b,int c);

int main(){

int p,q,r;

float w,o;

printf("Enter the marks of three subject");

scanf("%d %d %d",&p,&q,&r);

w=avg(p,q,r);

o=per(p,q,r);

printf("The average of these marks:%f",w);

printf("The percentage of these marks:%f",o);

return 0;}

float avg(int s,int u,int m)

{

float av;

av=(s+u+m)/3;

return(av);

}

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

{

float pe;

pe=(a+b+c)/3;

return(pe);

}

21.

#include<stdio.h>

int fibo(int num);

void main()

{

int num,c=0,i;

printf("Enter number: ");

scanf("%d", &num);

printf("Fibonacci Series:\n");

for(i=1;i<=num;i++)

{

printf("%d\n", fibo(c));

c++;

}

}

int fibo(int num)

{

if(num==0)

{

return 0;

}

else if(num==1)

{

return 1;

}

else

{

return (fibo(num-1)+fibo(num-2));

}

}

22.

#include <stdio.h>

#include <stdlib.h>

float findArea(float a, float b, float c)

{

if (a < 0 || b < 0 || c <0 || (a+b <= c) ||

a+c <=b || b+c <=a)

{

printf("Not a valid trianglen");

exit(0);

}

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

return sqrt(s\*(s-a)\*(s-b)\*(s-c));

}

int main()

{

float a = 3.0;

float b = 4.0;

float c = 5.0;

printf("Area is %f", findArea(a, b, c));

return 0;

}

23.

#include <stdio.h>

int main()

{

int marks[29], m, i, a=0, total=0;

float f;

printf("Input Mathematics marks (0 to terminate): ");

for(i = 0; ; i++)

{

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

if(marks[i] <= 0) {

break;

}

a++;

total += marks[i];

}

f = (float)total/(float)a;

printf("Average marks in Mathematics: %.2f\n", f);

return 0;

}

24.

#include<stdio.h>

int main()

{

int arr[5], a, i, count = 0;

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

{

printf("Enter number : ");

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

}

printf("\n\nEnter the number you want to search : ");

scanf("%d", &a);

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

{

if (arr[i] == a)

count++;

}

if (count)

printf("\n\n%d is present in the data %d times.", a, count);

else

printf("\n\n%d is not present in the data.", a);

return 0;

}

25.

#include <stdio.h>

int countPositiveNumbers(int\* arr, int n)

{

int pos\_count = 0;

int i;

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

if (arr[i] > 0)

pos\_count++;

}

return pos\_count;

}

int countNegativeNumbers(int\* arr, int n)

{

int neg\_count = 0;

int i;

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

if (arr[i] < 0)

neg\_count++;

}

return neg\_count;

}

void printArray(int\* arr, int n)

{

int i;

printf("Array: ");

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

printf("%d ", arr[i]);

}

printf("\n");

}

int main()

{

int arr[] = { 2, -1, 5, 6, 0, -3 };

int n;

n = sizeof(arr) / sizeof(arr[0]);

printArray(arr, n);

printf("Count of Positive elements = %d\n",

countPositiveNumbers(arr, n));

printf("Count of Negative elements = %d\n",

countNegativeNumbers(arr, n));

return 0;

}

26.

#include <stdio.h>

int main()

{

int arr[100], n, i, small, large;

printf("Enter the number of elements you want to insert : ");

scanf("%d", &n);

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

{

printf("Enter element %d : ", i + 1);

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

}

small = arr[0];

large = arr[0];

for (i = 1; i < n; i++)

{

if (arr[i] < small)

{

small = arr[i];

}

if (arr[i] > large)

{

large = arr[i];

}

}

printf("\nLargest element is : %d", large);

printf("\nSmallest element is : %d", small);

return 0;

}

27.

#include <stdio.h>

void incrementArray(int[]);

void main()

{

int j;

int array[4] = {10, 20, 30, 40};

incrementArray(array);

for (j = 0; j < 4; j++)

printf("%d\t", array[j]);

}

void incrementArray(int arr[])

{

int j;

for (j = 0; j < 4; j++)

arr[j]++;

}

28.

#include<stdio.h>

void main()

{

int n,i;

float avg[5],s1[5],s2[5],s3[5],sum[5];

clrscr();

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

{

printf("\nEnter marks of students %d in 3 subjects:",i+1);

scanf("%f%f%f",&s1[i],&s2[i],&s3[i]);

}

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

{

sum[i]=s1[i]+s2[i]+s3[i];

avg[i]=sum[i]/3;

}

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

printf("\nStudent %d's marks:\nTotal : %.2f\nAverage : %.2f",i+1,sum[i],avg[i]);

}

29.

#include <stdio.h>

void main()

{

int arr1[100], arr2[100];

int i, n;

printf("\n\nCopy the elements one array into another array :\n");

printf("----------------------------------------------------\n");

printf("Input the number of elements to be stored in the array :");

scanf("%d",&n);

printf("Input %d elements in the array :\n",n);

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

{

printf("element - %d : ",i);

scanf("%d",&arr1[i]);

}

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

{

arr2[i] = arr1[i];

}

printf("\nThe elements stored in the first array are :\n");

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

{

printf("% 5d", arr1[i]);

}

printf("\n\nThe elements copied into the second array are :\n");

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

{

printf("% 5d", arr2[i]);

}

printf("\n\n");

}

30.

#include <stdio.h>

int main()

{

int n, c, d, a[100], b[100];

printf("Enter the number of elements in array\n");

scanf("%d", &n);

printf("Enter array elements\n");

for (c = 0; c < n ; c++)

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

for (c = n - 1, d = 0; c >= 0; c--, d++)

b[d] = a[c];

for (c = 0; c < n; c++)

a[c] = b[c];

printf("The array after reversal:\n");

for (c = 0; c < n; c++)

printf("%d\n", a[c]);

return 0;

}

31.

#include<stdio.h>

void modify(int \*,int);

int main()

{

int i,arr[10]={1,2,3,4,5,6,7,8,9,10};

mod(&arr[0],10);

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

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

return 0;

}

void modify(int \*j,int n)

{

int i;

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

{

\*j=\*j\*3;

j++;

}

32.

(a) #include <stdio.h>

int main()

{

int array[100], size, c, location = 0;

printf("Enter number of elements in array\n");

scanf("%d", &size);

printf("Enter %d integers\n", size);

for (c = 0; c < size; c++)

scanf("%d", &array[c]);

for (c = 1; c < size; c++)

if (array[c] < array[location])

location = c;

printf("Minimum element is present at location %d and its value is %d.\n", location+1, array[location]);

return 0;

}

(b)#include <stdio.h>

main()

{

int array[100], \*minimum, size, c, location = 1;

printf("Enter the number of elements in array\n");

scanf("%d",&size);

printf("Enter %d integers\n", size);

for ( c = 0 ; c < size ; c++ )

scanf("%d", &array[c]);

minimum = array;

\*minimum = \*array;

for ( c = 1 ; c < size ; c++ )

{

if ( \*(array+c) < \*minimum )

{

\*minimum = \*(array+c);

location = c+1;

}

}

printf("Minimum element is present at location number %d and it's value is %d.\n", location, \*minimum);

return 0;

}

(c) #include<stdio.h>

int main()

{

int a[50],i,n,large,small;

printf(“\nEnter the number of elements : “);

scanf(“%d”,&n);

printf(“\nInput the array elements : “);

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

scanf(“%d”,&a[i]);

large=small=a[0];

for(i=1;i<n;++i)

{

if(a[i]>large)

large=a[i];

if(a[i]<small)

small=a[i];

}

printf(“\nThe smallest element is %d\n”,small);

printf(“\nThe largest element is %d\n”,large);

return 0;

}

33. (a)#include <stdio.h>

#include <string.h>

int main()

{

char s[1000];

int i;

printf("Enter the string in lower case: ");

gets(s);

printf("string in lowercase ='%s'\n",s);

for(i=0;s[i];i++)

{

if(s[i]>=97 && s[i]<=122)

s[i]-=32;

}

printf("string in uppercase ='%s'\n",s);

return 0;

}

(b) #include <stdio.h>

int main() {

char s[] = "Programming is fun";

int i;

for (i = 0; s[i] != '\0'; ++i);

printf("Length of the string: %d", i);

return 0;

}

(c) #include <stdio.h>

#include <string.h>

int main()

{

char s1[1000],s2[1000];

int i,c=0;

printf("Enter string1: ");

gets(s1);

printf("Enter string2: ");

gets(s2);

if(strlen(s1)==strlen(s2))

{

for(i=0;s2[i]!='\0';i++)

{

if(s1[i]==s2[i])

c++;

}

if(c==i)

printf("strings are equal");

else

printf("strings are not equal");

}

else

printf("strings are not equal");

return 0;

}

(d) #include <stdio.h>

#include <string.h>

#include <stdlib.h>

void main()

{

char str1[100], str2[100];

int i;

printf("\n\nCopy one string into another string :\n");

printf("-----------------------------------------\n");

printf("Input the string : ");

fgets(str1, sizeof str1, stdin);

i=0;

while(str1[i]!='\0')

{

str2[i] = str1[i];

i++;

}

str2[i] = '\0';

printf("\nThe First string is : %s\n", str1);

printf("The Second string is : %s\n", str2);

printf("Number of characters copied : %d\n\n", i);

}

(e) #include <stdio.h>

int main() {

char s1[100] = "programming ", s2[] = "is awesome";

int length, j;

length = 0;

while (s1[length] != '\0') {

++length;

}

for (j = 0; s2[j] != '\0'; ++j, ++length) {

s1[length] = s2[j];

}

s1[length] = '\0';

printf("After concatenation: ");

puts(s1);

return 0;

}

34. #include <stdio.h>

const int CITY = 2;

const int WEEK = 7;

int main()

{

int temperature[CITY][WEEK];

for (int i = 0; i < CITY; ++i)

{

for (int j = 0; j < WEEK; ++j)

{

printf("City %d, Day %d: ", i + 1, j + 1);

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

}

}

printf("\nDisplaying values: \n\n");

for (int i = 0; i < CITY; ++i)

{

for (int j = 0; j < WEEK; ++j)

{

printf("City %d, Day %d = %d\n", i + 1, j + 1, temperature[i][j]);

}

}

return 0;

}

35. #include <stdio.h>

int main() {

int r, c, a[100][100], b[100][100], sum[100][100], i, j;

printf("Enter the number of rows (between 1 and 100): ");

scanf("%d", &r);

printf("Enter the number of columns (between 1 and 100): ");

scanf("%d", &c);

printf("\nEnter elements of 1st matrix:\n");

for (i = 0; i < r; ++i)

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

printf("Enter element a%d%d: ", i + 1, j + 1);

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

}

printf("Enter elements of 2nd matrix:\n");

for (i = 0; i < r; ++i)

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

printf("Enter element b2%d%d: ", i + 1, j + 1);

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

}

for (i = 0; i < r; ++i)

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

sum[i][j] = a[i][j] + b[i][j];

}

36. #include <stdio.h>

int sumofarray(int a[],int n)

{

int min,max,i;

min=max=a[0];

for(i=1; i<n; i++)

{

if(min>a[i])

min=a[i];

if(max<a[i])

max=a[i];

}

printf("minimum of array is : %d",min);

printf("\nmaximum of array is : %d",max);

}

int main()

{

int a[1000],i,n,sum;

printf("Enter size of the array : ");

scanf("%d", &n);

printf("Enter elements in array : ");

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

{

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

}

sumofarray(a,n);

}