**Source Code array\_2d.c**

#include <stdio.h>

int array[3][2];

int main()

{

int x,y;

array[0][0] = 1;

array[0][1] = 2;

array[1][0] = 3;

array[1][1] = 4;

array[2][0] = 5;

array[2][1] = 6;

printf("array[%d] ",0);

printf("%d", array[0][0]);

printf("%d", array[0][1]);

printf("\n");

printf("array[%d] ",1);

printf("%d", array[1][0]);

printf("%d", array[1][1]);

printf("\n");

printf("array[%d] ",2);

printf("%d", array[2][0]);

printf("%d", array[2][1]);

printf("\n");

return(0);

}

**Source Code array\_string.c**

#include <stdio.h>

int main()

{

char nama[17];

int ch, maks=17, nch=0;

int jk=0, jb=0;

maks = maks-1;

printf("Masukkan nama anda : ");

while((ch = getchar())!= EOF)

{

if(ch == '\n')

break;

if(nch < maks)

{

nama[nch] = ch;

if(nama[nch] >= 'a' && nama[nch] <= 'z')

jk++;

else if(nama[nch] >= 'A' && nama[nch] <= 'Z')

jb++;

}

nch = nch+1;

}

nama[nch];

printf("Nama : %s \n", nama);

printf("Jumlah huruf kecil : %d \n", jk);

printf("Jumlah huruf besar : %d \n", jb);

printf("Jumlah huruf dan spasi : %d \n", nch);

return 0;

}

**Source Code matriks.c**

#include "stdio.h"

int main()

{

int n, m, n1, m1, i, j, k;

int M1[100][100];

int M2[100][100];

int M3[100][100];

printf("Operasi Perkalian 2 Buah Matriks\n");

printf("Matriks pertama berorde : ");

scanf("%i, %i", &m, &n);

printf("Matriks kedua berorde : ");

scanf("%i, %i", &m1, &n1);

if (n!=m1)

printf("Perkalian matriks tidak dapat dilakukan, karena tidak sesuai dengan aturan perkalian matriks \n");

else

{

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

{

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

{

printf("Masukkan elemen M1[%i %i] = ",i+1,j+1);

scanf("%i", &M1[i][j]);

}

}

}

for(i=0; i<m1; i++)

{

for(j=0; j<n1; j++)

{

printf("Masukkan elemen M2[%i %i] = ",i+1,j+1);

scanf("%i", &M2[i][j]);

}

}

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

{

for(j=0; j<n1; j++)

{

M3[i][j] = 0;

for(k=0; k<m1; k++)

{

M3[i][j]=M3[i][j]+(M1[i][j]\*M2[k][j]);

}

}

}

printf("Hasil perkaliannya adalah : ");

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

{

for(j=0; j<n1; j++)

{

printf("M3[%i %i] = %i \n",i+1,j+1, M3[i][j]);

}

}

return 0;

}

**Source Code matriks2d.c**

#include "stdio.h"

void main()

{

int baris, kolom, matriks[3][4];

printf("Input elemen Array : \n");

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

for(kolom=0; kolom<4; kolom++){

printf("matriks[%i][%i]", baris+1, kolom+1);

scanf("%i", &matriks[baris][kolom]);

}

printf("\n");

}

printf("Isi array : \n");

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

for(kolom=0; kolom<4; kolom++){

printf("%i", matriks[baris][kolom]);

}

printf("\n");

}

}

**Source Code rata-rata.c**

#include <stdio.h>

int main()

{

int numbers[10];

int count = 10;

int i;

long sum = 0L;

float average = 0.0f;

printf("\nMasukkan 10 bilangan:\n");

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

{

printf("Data ke - %2d> ", i+1);

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

sum += numbers[i];

}

average = (float)sum/count;

printf("\n Nilai rata-ratanya adalah: %f\n", average);

return (0);

}

**Source Code rata-rata\_modif.c**

#include <stdio.h>

int main()

{

int numbers[10];

int count = 10;

int i;

long sum = 0L;

float average = 0.0f;

printf("\nMasukkan 10 bilangan:\n");

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

{

printf("Data ke - %2d> ", i+1);

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

sum += numbers[i];

}

average = (float)sum/count;

printf("\n Nilai rata-ratanya adalah: %f\n", average);

return (0);

}

**Source Code array2d\_modif1.c**

#include <stdio.h>

int array[4][3];

int main()

{

int x,y;

array[0][0] = 1;

array[0][1] = 2;

array[0][2] = 3;

array[1][0] = 4;

array[1][1] = 5;

array[1][2] = 6;

array[2][0] = 7;

array[2][1] = 8;

array[2][2] = 9;

array[3][0] = 10;

array[3][1] = 11;

array[3][2] = 12;

printf("array[%d] ",0);

printf("%d", array[0][0]);

printf("%d", array[0][1]);

printf("%d", array[0][2]);

printf("\n");

printf("array[%d] ",1);

printf("%d", array[1][0]);

printf("%d", array[1][1]);

printf("%d", array[1][2]);

printf("\n");

printf("array[%d] ",2);

printf("%d", array[2][0]);

printf("%d", array[2][1]);

printf("%d", array[2][2]);

printf("\n");

printf("array[%d] ",3);

printf("%d", array[3][0]);

printf("%d", array[3][1]);

printf("%d", array[3][2]);

printf("\n");

}

**Source Code array2d\_modif2.c**

#include <stdio.h>

int array[4][3];

int main()

{

int x,y;

array[0][0] = ‘a’;

array[0][1] = ‘b’;

array[0][2] = ‘c’;

array[1][0] = ‘d’;

array[1][1] = ‘e’;

array[1][2] = ‘f’;

array[2][0] = ‘g’;

array[2][1] = ‘h’;

array[2][2] = ‘i’;

array[3][0] = ‘j’;

array[3][1] = ‘k’;

array[3][2] = ‘l’;

printf("array[%d] ",0);

printf("%c", array[0][0]);

printf("%c", array[0][1]);

printf("%c", array[0][2]);

printf("\n");

printf("array[%d] ",1);

printf("%c", array[1][0]);

printf("%c", array[1][1]);

printf("%c", array[1][2]);

printf("\n");

printf("array[%d] ",2);

printf("%c", array[2][0]);

printf("%c", array[2][1]);

printf("%c", array[2][2]);

printf("\n");

printf("array[%d] ",3);

printf("%c", array[3][0]);

printf("%c", array[3][1]);

printf("%c", array[3][2]);

printf("\n");

return(0);

}