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| NO | KEGIATAN | CONTOH SCRIPT | | LATIHAN |
| C | C++ |
| 1. | Menampilkan array satu dimensi | #include <stdio.h>  main()  {  int my\_array[11] = { 1,23,17,4,-5,100,8,7,6,10,21};  printf("Data ke-1 = %d",my\_array[0]);  printf("\nData ke-2 = %d",my\_array[1]);  printf("\nData ke-3 = %d",my\_array[2]);  printf("\nData ke-4 = %d",my\_array[3]);  printf("\nData ke-5 = %d",my\_array[4]);  printf("\nData ke-6 = %d",my\_array[5]);  printf("\nData ke-7 = %d",my\_array[6]);  printf("\nData ke-8 = %d",my\_array[7]);  printf("\nData ke-9 = %d",my\_array[8]);  printf("\nData ke-10 = %d",my\_array[9]);  printf("\nData ke-11 = %d",my\_array[10]);  } | #include <iostream>  using namespace std;  main(){  int my\_array [11]={1,23,17,4,-5,100,8,7,6,10,21};  cout << "Nama = Diky Aryadi";  cout << "\nNIM = F1B019041";  cout << "\nKelompok = 9";  cout << "\nData ke-1= "<<my\_array [0];  cout << "\nData ke-2= "<<my\_array [1];  cout << "\nData ke-3= "<<my\_array [2];  cout << "\nData ke-4= "<<my\_array [3];  cout << "\nData ke-5= "<<my\_array [4];  cout << "\nData ke-6= "<<my\_array [5];  cout << "\nData ke-7= "<<my\_array [6];  cout << "\nData ke-8= "<<my\_array [7];  cout << "\nData ke-9= "<<my\_array [8];  cout << "\nData ke-10= "<<my\_array [9];  cout << "\nData ke-11= "<<my\_array [10];  return 0;  } | Buatlah program array satu dimensi yang menampilkan nim masing masing mahasiswa |
| SCREENSHOOT | |
| C | C++ |
| C:\Users\DELL\Pictures\Screenshots\Screenshot (103).png | C:\Users\DELL\Pictures\Screenshots\Screenshot (101).png |

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| C | C++ |
| 2. | Mengisi dan menampilkan elemen array (dinamis) | #include<stdio.h>  main(){  int nim[11];  printf("Masukkan Nim ke-1 = ");  scanf("%i", &nim[0]);  printf("Masukkan Nim ke-2 = ");  scanf("%i", &nim[1]);  printf("Masukkan Nim ke-3 = ");  scanf("%i", &nim[2]);  printf("Masukkan Nim ke-4 = ");  scanf("%i", &nim[3]);  printf("Masukkan Nim ke-5 = ");  scanf("%i", &nim[4]);  printf("Masukkan Nim ke-6 = ");  scanf("%i", &nim[5]);  printf("Masukkan Nim ke-7 = ");  scanf("%i", &nim[6]);  printf("Masukkan Nim ke-8 = ");  scanf("%i", &nim[7]);  printf("Masukkan Nim ke-9 = ");  scanf("%i", &nim[8]);  printf("Masukkan Nim ke-10 = ");  scanf("%i", &nim[9]);  printf("Masukan Nim ke-11 =");  scanf("%i", &nim[10]);    printf("\nNilai 1 = %d",nim[0]);  printf("\nNilai 2 = %d",nim[1]);  printf("\nNilai 3 = %d",nim[2]);  printf("\nNilai 4 = %d",nim[3]);  printf("\nNilai 5 = %d",nim[4]);  printf("\nNilai 6 = %d",nim[5]);  printf("\nNilai 7 = %d",nim[6]);  printf("\nNilai 8 = %d",nim[7]);  printf("\nNilai 9 = %d",nim[8]);  printf("\nNilai 10 = %d",nim[9]);  printf("\nNilai 11 = %d",nim[10]);  } | #include <iostream>  using namespace std;  int main()  {  cout<<"Nama : Diky Aryadi"<<endl;  cout<<"Nim : F1B01041"<<endl;  cout<<"kelompok : 9"<<endl<<endl;    int x [11];    cout<<"Input nilai ke-1 : ";  cin>>x[0];  cout<<"Input nilai ke-2 : ";  cin>>x[1];  cout<<"Input nilai ke-3 : ";  cin>>x[2];  cout<<"Input nilai ke-4 : ";  cin>>x[3];  cout<<"Input nilai ke-5 : ";  cin>>x[4];  cout<<"Input nilai ke-6 : ";  cin>>x[5];  cout<<"Input nilai ke-7 : ";  cin>>x[6];  cout<<"Input nilai ke-8 : ";  cin>>x[7];  cout<<"Input nilai ke-9 : ";  cin>>x[8];  cout<<"Input nilai ke-10 : ";  cin>>x[9];  cout<<"Input nilai ke-11: ";  cin>>x[10];  cout<<endl;    cout<<"\nNilai ke-1="<<x[0]<<endl;  cout<<"Nilai ke-2="<<x[1]<<endl;  cout<<"Nilai ke-3="<<x[2]<<endl;  cout<<"Nilai ke-4="<<x[3]<<endl;  cout<<"Nilai ke-5="<<x[4]<<endl;  cout<<"Nilai ke-6="<<x[5]<<endl;  cout<<"Nilai ke-7="<<x[6]<<endl;  cout<<"Nilai ke-8="<<x[7]<<endl;  cout<<"Nilai ke-9="<<x[8]<<endl;  cout<<"Nilai ke-10="<<x[9]<<endl;  cout<<"Nilai ke-11="<<x[10]<<endl;  } | Buatlah program mengisi dan menampilkan elemen array dengan index array sesuai dengan NIM terakhir setiap Mahasiswa |
| SCREENSHOOT | |
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| 3. | Penjumlahan Matriks dua dimensi | #include <stdio.h>  main ()  {  int i, j;  int matrik1 [2][2], matrik2 [2][2], jumlah [2][2];  for (i = 0; i < 2; i++){  for (j = 0; j < 2; j++){  printf ("Masukkan nilai matrik 1 %i, %i = ", i, j);  scanf ("%i", &matrik1[i][j]);  }  }  printf ("\n");  for (i = 0; i < 2; i++){  for (j = 0; j < 2; j++){  printf ("Masukkan nilai matrik 2 %i, %i = ", i, j);  scanf ("%i", &matrik2[i][j]);  }  }  printf("\n");  for (i = 0; i < 2; i++){  for (j = 0; j < 2; j++){  jumlah [i][j]=matrik1[i][j]+matrik2[i][j];  printf ("%i ", jumlah[i][j]);  }  printf ("\n");  }  } | #include <iostream>  #include <conio.h>  using namespace std;  int main(){  cout<<"Nama : Diky Aryadi"<<endl;  cout<<"Nim : F1B019041"<<endl;  cout<<"Kelompok : 9"<<endl;  int i,x;  int nimA[2][2];  int nimB[2][2];  int jmlh [2][2];    cout<<"PENJUMLAHAN MATRIX :\n";  for (i=0; i<2; i++){  for (x=0; x<2; x++){  cout<<"Masukkan Nim ke-1 "<<"["<<i<<"]["<<x<<"]"<<" = ";  cin>>nimA[i][x];  }  }  cout<<endl;  for(i=0; i<2; i++){  for(x=0; x<2; x++){  cout<<"Masukan Nim ke-2 "<<"["<<i<<"]["<<x<<"]"<<" = ";  cin>>nimB[i][x];  }  }  cout <<endl;  for (i=0; i<2; i++){  for (x=0; x<2; x++){  jmlh [i][x]=nimA[i][x]+nimB[i][x];  cout<<jmlh[i][x]<<" ";  }  cout<<endl;  }  } | Buatlah program penjumlahan matriks dua dimensi dengan menggnakan NIM dua orang mahasiswa |
| SCREENSHOOT | |
| C | C++ |
| C:\Users\DELL\Pictures\Screenshots\Screenshot (114).png | C:\Users\DELL\Pictures\Screenshots\Screenshot (112).png |

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| C | C++ |
| 4. | Pengurangan matriks dua dimensi | #include <stdio.h>  int main()  {  int i, j, m, n, matriks1[10][10], matriks2[10][10], hasil[10][10];  printf("Masukkan jumlah baris matriks: ");  scanf("%d", &m);  printf("Masukkan jumlah kolom matriks: ");  scanf("%d", &n);  printf("Masukkan elemen matriks pertama: \n");  for (i = 0; i < m; i++)  {  for (j = 0; j < n; j++)  {  scanf("%d", &matriks1[i][j]);  }  }  printf("Masukkan elemen matriks kedua: \n");  for (i = 0; i < m; i++)  {  for (j = 0; j < n; j++)  {  scanf("%d", &matriks2[i][j]);  }  }  printf("Hasil pengurangan matriks: \n");  for (i = 0; i < m; i++)  {  for (j = 0; j < n; j++)  {  hasil[i][j] = matriks1[i][j] - matriks2[i][j];  printf("%d \t", hasil[i][j]);  }  printf("\n");  }  return 0;  } | #include <iostream>  #include <conio.h>  using namespace std;  int main(void)  {  int a[10][10],b[10][10],c[10][10];  int i,j;  cout<<endl<<" Elemen matriks A : "<<endl;  for(i=0;i<2;i++)  { for(j=0;j<2;j++){  cout<<" Elemen matrik A baris ke-"<<i+1<<" kolom ke-"<<j+1<<": ";  cin>>a[i][j];  }  }  cout<<endl<<" Elemen matriks B : "<<endl;  for(i=0;i<2;i++)  { for(j=0;j<2;j++){  cout<<" Elemen matrik B baris ke-"<<i+1<<" kolom ke-"<<j+1<<": ";  cin>>b[i][j];  }  }  cout<<endl;  for(i=0;i<2;i++)  { for(j=0;j<2;j++){  c[i][j]=a[i][j]-b[i][j];  }  }  cout<<" Element matriks C [hasil] : "<<endl;  for(i=0;i<2;i++)  { for(j=0;j<2;j++){  cout<<" "<<c[i][j];  }  cout<<endl;  }  getch();  } | Buatlah program pengurangan matriks dua dimensi dengan menggunakan NIM dua orang mahasiswa |
| SCREENSHOOT | |
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| 5. | Perkalian matriks dua dimensi | #include <stdio.h>  #include <conio.h>  main (){  int nim1 [2][2];  int nim2 [2][2];  int hasil [2][2];  int i, j;  printf ("PERKALIAN MATRIK\n\n");  for (i = 0; i< 2; i++){  for (j = 0; j < 2; j++){  printf ("Masukkan nilai index %d, %d = ", i, j);  scanf ("%d", &nim1[i][j]);  }  }  printf ("\n");  for (i = 0; i< 2; i++){  for (j = 0; j < 2; j++){  printf ("Masukkan nilai index %d, %d = ", i, j);  scanf ("%d", &nim2[i][j]);  }  }  printf ("\nHasil Perkalian\n :");  for (i = 0; i< 2; i++){  for (j = 0; j < 2; j++){  hasil [i][j]=nim1[i][0]\*nim2[0][j];  printf ("%d ", hasil[i][j]);  }  printf ("\n");  }  getch();  } | #include<iostream>  #include<conio.h>  using namespace std;  int main(){      int m,n;  int nim1[2][2];  int nim2[2][2];  int perkalian[2][2];    cout<<"PERKALIAN MATRIK :"<<endl<<endl;  for(m=0;m<2;m++){  for(n=0;n<2;n++){  cout<<"Masukkan nilai Nim ke-1 "<<"["<<m<<"]["<<n<<"]"<<" = ";  cin>>nim1[m][n];  }  }  cout<<endl;  for(m=0;m<2;m++){  for(n=0;n<2;n++){  cout<<"Masukkan nilai Nim ke-2 "<<"["<<m<<"]["<<n<<"]"<<" = ";  cin>>nim2[m][n];  }  }  cout<<endl<<endl;  cout<<"Hasil Perkalian : "<<endl;  for(m=0;m<2;m++){  for(n=0;n<2;n++){  perkalian[m][n]=nim1[m][n]\*nim2[m][n];  cout<<perkalian[m][n]<<" ";  }  cout<<endl;  }  system("pause");  return 0;  } | Buatlah program perkalian Matriks dua dmensi dengan mengguunakan NIM dua orang mahasiswa |
| SCREENSHOOT | |
| C | C++ |
| C:\Users\DELL\Pictures\Screenshots\Screenshot (121).png | C:\Users\DELL\Pictures\Screenshots\Screenshot (119).png |

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| C | C++ |
| 6. | Matriks transpose | #include <stdio.h>  #include <conio.h>  main (){  int nim1 [5][5];  int i, j, x, y;  printf ("MATRIK TRANSPOSE\n\n");  printf ("Masukkan jumlah baris = ");  scanf ("%i", &x);  printf ("Masukkan jumlah kolom = ");  scanf ("%i", &y);  printf ("\nELEMEN MATRIK \n");  for (i = 0; i< x; i++){  for (j = 0; j < y; j++){  printf ("Masukkan nilai index %d, %d = ", i, j);  scanf ("%d", &nim1[i][j]);  }  }  printf ("\nMATRIK :\n");  for (i = 0; i< x; i++){  for (j = 0; j < y; j++){  printf ("%d ",nim1[i][j]);  }  printf ("\n");  }  printf ("\nTRANSPOSE MATRIK :\n");  for (i = 0; i< y; i++){  for (j = 0; j < x; j++){  printf ("%d ", nim1[j][i]);  }  printf ("\n");  }  getch();  } | #include <iostream>  using namespace std;  int main()  {  int i, j, m, n, matriks[10][10], transpose[10][10];  cout << "Masukkan jumlah baris matriks: ";  cin >> m;  cout << "Masukkan jumlah kolom matriks: ";  cin >> n;  cout << "\nMasukkan elemen matriks\n";  for (i = 0; i < m; i++){  for (j = 0; j < n; j++){  cout<<"Masukkan "<<"["<<i<<"]["<<j<<"]"<<" = ";  cin>>matriks[i][j];    }  }    for (i = 0; i < m; i++){  for (j = 0; j < n; j++){  transpose[j][i] = matriks[i][j];  }  }    cout << "\nHasil Transpose Matriks: \n";  for (i = 0; i < n; i++){  for (j = 0; j < m; j++){  cout << transpose[i][j] << "\t";  }  cout << endl;  }  system("pause");  return 0;  } | Buatlah Matriks transpose bersifat dinamis menggunakan persoalan diatas |
| SCREENSHOOT | |
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