1

#include<iostream>

using namespace std;

bool check\_palindrome(int n)

{

int temp = n;

int reversed\_n = 0;

while (n > 0) {

int digit = n % 10;

reversed\_n = reversed\_n \* 10 + digit;

n /= 10;

}

if (temp==reversed\_n)

{

return true;

}

else{

return false;

}

}

int main()

{

int n;

cout<<"Enter a Number : ";

cin>>n;

if(check\_palindrome(n)){

cout<<"its a palindrome";

}

else{

cout<<"Not a palindrome";

}

}

2

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#include<iostream>

using namespace std;

int main()

{

int n1, n2,choice;

cin>>n1>>n2;

cout<<"Enter choice: \n 1. Add\n 2.Subtract\n. 3.Multiply \n4. Divide ";

cin>>choice;

switch (choice){

case 1:

{

cout<<"Addition is "<<n1+n2;

break;

}

case 2:

{

cout<<"Subtraction is "<<n1-n2;

break;

}

case 3:

{

cout<<"Multiplication is "<<n1\*n2;

break;

}

case 4 :

{

cout<<"Division is "<<n1/n2;

break;

}

default:

{

cout<<"Wrong choice ";

}

}

return 0;

}

3

#include <iostream>

using namespace std;

int main() {

long binary;

int decimal = 0, power = 0;

cout << "Entera binary number: ";

cin >> binary;

while (binary > 0) {

int digit = binary % 10;

decimal = decimal + digit\* pow(2, power);

power++;

binary = binary / 10;

}

cout << "decimal eqivlent:" << decimal << endl;

return 0;

}

4(isme check palindrome wala func reuse kara hai)

#include<iostream>

using namespace std;

void check\_palindrome(int n)

{

int temp = n;

int reversed\_n = 0;

while (n > 0) {

int digit = n % 10;

reversed\_n = reversed\_n \* 10 + digit;

n /= 10;

}

cout<<"reversed num is : "<< reversed\_n;

}

int main()

{

int n;

cout<<"Enter a Number : ";

cin>>n;

check\_palindrome(n);

}

5

#include <iostream>

using namespace std;

int main() {

char ch;

cout << "Enter a char ";

cin >> ch;

if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z')) {

cout << "Its a alphabet" << endl;

} else if (ch >= '0' && ch <= '9') {

cout << "It a digit" << endl;

} else {

cout << "Its a specil character" << endl;

}

return 0;

}

6

#include <iostream>

using namespace std;

void swapNumbers(int &a, int &b)

{

a = a + b;

b = a - b;

a = a - b;

}

int main() {

int num1, num2;

cout << "Enter two numbers ";

cin >> num1 >> num2;

cout << "Before " << num1 << " " << num2 << endl;

swapNumbers(num1, num2);

cout << "After " << num1 << " " << num2 << endl;

return 0;

}

7

#include <iostream>

using namespace std;

int main() {

int rows1, cols1, rows2, cols2;

cout << "Enter the number of rows and columns for matrix A: ";

cin >> rows1 >> cols1;

cout << "Enter the number of rows and columns for matrix B: ";

cin >> rows2 >> cols2;

int A[rows1][cols1];

int B[rows2][cols2];

int C[rows1][cols2];

cout << "Enter elements of matrix A:" << endl;

for (int i = 0; i < rows1; ++i) {

for (int j = 0; j < cols1; ++j) {

cin >> A[i][j];

}

}

cout << "Enter elements of matrix B:" << endl;

for (int i = 0; i < rows2; ++i) {

for (int j = 0; j < cols2; ++j) {

cin >> B[i][j];

}

}

for (int i = 0; i < rows1; ++i) {

for (int j = 0; j < cols2; ++j) {

C[i][j] = 0;

for (int k = 0; k < cols1; ++k) {

C[i][j] += A[i][k] \* B[k][j];

}

}

}

cout << " matrix after multiplication:" << endl;

for (int i = 0; i < rows1; ++i) {

for (int j = 0; j < cols2; ++j) {

cout << C[i][j] << " ";

}

cout << endl;

}

return 0;

}

8(Triangle \*)

#include <iostream>

using namespace std;

int main() {

int n;

cout << "Enter the number of rows: ";

cin >> n;

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

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

cout << " ";

}

for (int j = 1; j <= 2 \* i - 1; ++j) {

cout << "\*";

}

cout << endl;

}

return 0;

}

8(palindrome triangle)

#include <iostream>

using namespace std;

int main() {

int n;

cout << "Enter the number of rows: ";

cin >> n;

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

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

cout << " ";

}

for (int j = i; j <= 2 \* i - 1; ++j) {

cout << j << " ";

}

for (int j = 2 \* i - 2; j >= i; --j) {

cout << j << " ";

}

cout << endl;

}

return 0;

}