1. WAP for printing all natural numbers till 20.

#include <iostream>

using namespace std;

void naturalNum(int n)

{

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

{

cout<<i<<" ";

}

}

int main()

{

naturalNum(20);

return 0;

}

2. WAP for printing all natural numbers in reverse order starting from 20.

#include <iostream>

using namespace std;

void reverseNo(int n)

{

int i;

cout<<"\n";

for (i = n; i >= 1; i--)

{

cout << i << " ";

}

}

int main()

{

reverseNo(20);

return 0;

}

3. WAP for printing all even numbers from 1 to 20.

#include <iostream>

using namespace std;

void even( )

{

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

{

if(i%2==00)

cout<<i<<endl;

}

}

int main()

{

even();

return 0;

}

4. WAP for printing all odd numbers from 1 to 20.

using namespace std;

void odd( )

{

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

{

if(i%2!=0)

cout<<i<<endl;

}

}

int main()

{

odd();

return 0;

}

5. WAP for adding all numbers from 1 to 20.

#include <iostream>

using namespace std;

void SumNo(int i)

{

int x = 0;

cout << "Sum of all No till 20 " << "\n";

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

{

x = i+x;

}

cout << x;

}

int main()

{

SumNo(20);

return 0;

}

6. WAP for finding sum of all even numbers till 20.

#include <iostream>

using namespace std;

void EvenSum(int i)

{

int x = 0;

cout << "Print Sum of all Even No till 20 " << "\n";

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

{

if((i%2)==0)

{

x = i+x;

}

}

cout << x;

}

int main()

{

EvenSum(20);

return 0;

}

7. WAP for finding sum of all odd numbers till 20.

#include<iostream>

using namespace std;

void addOddNumbers()

{

int sum = 0;

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

if(i%2!=0)

sum = sum + i;

}

cout<<"Sum of all odd numbers till 20 : "<<sum;

}

int main()

{

addOddNumbers();

return 0;

}

8. WAP for printing multiplication table of a number. For eg. Display should be “ 2 X 1 = 2”

#include<iostream>

using namespace std;

void multiplication(){

int num;

cout<<"Enter a number ";

cin>>num;

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

{

cout << num << " \* " << i << " = " << num \* i << endl;

}

}

int main(){

multiplication();

return 0;

}

9. WAP to calculate factorial of a number.

#include<iostream>

using namespace std;

void Factorial(){

int num,factorial=1;

cout<<" Enter NO: ";

cin>>num;

for (int a=1;a<=num;a++) {

factorial=factorial\*a;

}

cout<<"Factorial = "<<factorial<<endl;

}

int main(){

Factorial();

return 0;

}

10. WAP to check whether a number is prime or not.

#include<iostream>

using namespace std;

int pri(int num);

int main() {

int num;

cout << "Enter a positive number\n";

cin >> num;

if(pri(num))

cout << num << " is a Prime Number",num;

else

cout << num <<" is NOT a Prime Number",num;

return 0;

}

int pri(int num){

int i;

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

if(num%i==0) {

return 0;

}

}

return 1;

}

11. WAP to print all digits of a number and their sum.

#include<iostream>

using namespace std;

void digitAndSum(int n)

{

int sum=0;

while(n!=0)

{

int last\_digit = n%10;

cout<<last\_digit<<endl;

n = n/10;

sum = sum + last\_digit;

}

cout<<"Sum of digits = "<<sum;

}

int main()

{

int n;

cout<<"Enter a number: ";

cin>>n;

digitAndSum(n);

return 0;

}

12.WAP to print reverse of a number.

#include<iostream>

using namespace std;

void reverseNumber(int n)

{

int rev=0;

while(n!=0)

{

int last\_digit = n % 10;

rev = rev\*10 + last\_digit;

n = n/10;

}

cout<<"Reverse of a number = "<<rev;

}

int main()

{

int n;

cout<<"Enter a number = ";

cin>>n;

reverseNumber(n);

return 0;

}

13. WAP to check whether the number is Armstrong or not.

#include<iostream>

using namespace std;

void checkArmstrong(int n)

{

int temp, sum=0;

temp = n;

while(n!=0)

{

int r = n % 10;

sum = sum + (r\*r\*r);

n = n/10;

}

if(temp == sum)

{

cout<<temp<<" is a Armstrong Number";

}

else

{

cout<<temp<<" is not a Armstrong Number";

}

}

int main()

{

int n;

cout<<"Enter number: ";

cin>>n;

checkArmstrong(n);

return 0;

}

14. WAP to print the Fibonacci series in a given range.

#include<iostream>

using namespace std;

void fibonacci(int n)

{

int n1 = 0;

int n2 = 1;

cout<<n1<< " " << n2;

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

{

int sum = n1 + n2;

cout<<" " <<sum;

n1 = n2;

n2 = sum;

}

}

int main()

{

int count;

cout<<"number : ";

cin>>count;

cout<<"Fibonacci: ";

fibonacci(count);

return 0;

}

Q15. WAP to check whether the number entered is palindrome or not

#include<iostream>

using namespace std;

void checkPalindrome(int n)

{

int rev=0;

int original = n;

while(n!=0)

{

int last\_digit = n % 10;

rev = rev\*10 + last\_digit;

n = n/10;

}

if(rev == original)

cout<<"Palindrome No";

else

cout<<"Not Palindrome no";

}

int main()

{

int n;

cout<<"number: ";

cin>>n;

checkPalindrome(n);

}