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Matric/no:-18/SCI01/072

Department:-computer science

Course:-CSC 206

Answer

4 long factorial(int);

Int main() { int n;

Printf(“Enter a number to calculate its factorial\n”);scanf(%d”,&n);

Printf(“%d!=%Id\n”,n,factorial(n);

Return 0;}

Long factorial (int n) { int c; long r=1;

For(c=1;c <=n; c++) r=r\*c;

Return r;}

6 #include<stdio.h>

int main()

{

Char ch;

Printf(“please Enter an alphabet: \n”);

Scanf(“ %c”, &ch);

If(ch == ‘ a ‘ || ch== ‘ e ‘ || ch== ‘ I ‘ || ch == ‘ o ‘ || ch== ‘ u ‘ ||

Ch== ‘A’ || ch== ‘ E ’ || ch== ‘ I ‘ || ch== ‘o ‘ || ch== ‘U’) {

}

Else {

Printf(‘’\n % c is a consonant.”,ch);

}

Return 0;

}

3 #include <stdio.h>

Int main() {

Int n, I, flag=0;

Printf(“Enter a positive integer: “);

Scanf(“%d”, &n);

For i=2; i<=n /2; ++i) {

// condition for non-prime

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 numbr.”,n);

Else

Printf(“%d is not a prime number. “, n);

}

Return 0;

}

7 #include <iostream>

Using namespace std;

Int main()

{

Int n;

Cout << “Enter a positive integer: “;

Cin >> n;

For (int i= 1; I <=10; ++i) {

Cout << n<< “ \* “ << i << “ = “ << n \* I << endi;

}

Return 0;

}

9 #include <stdio.h>

Int main() {

Int p, q, r, s;

Printf(‘’\nInput the first integer: “);

Scanf(‘’%d”, &p);

Printf(“\nInput the second integer: ‘’);

Scanf(‘’%d’’, &p);

Printf(‘’\nInput the third integer: “);

Scanf(“%d”, &r);

Printf(‘’\nInput the fourth integer: ‘’);

Scanf(“%d”, &s);

If( (q >r) && (s>p) && ((r +s)>(p+q) &&(r>0)&&(s>0)&& (p%2 == 0))

{

Printf(“\ncorrect values\n”);

}

Else {

Printf(“\nWrong values\n’’);

}

Return 0;

}

3 #include <stdio.h>

Int main() {

Int n, i, flag=0;

Printf(‘’Enter a positive integer: ‘’);

Scanf(%d’’,&n);

For (i=2; i <=n / 2; ++I) {

// condition for non-prime

If (n % i == 0) {

Flag =1;

Break;

}

}

If (n == 1) {

Printf(‘’1 is neither prime nor composite.’’);

}

Else {

If (flag == 0)

Printf(‘’%d is aprime number.’’, n);

Else

Printf(‘’%d is not a prime number.’’,n);

}

Return 0;

}

8 #include <stdio.h>

Int main() {

Int n, i;

Printf(‘’Enter an integer: ‘’);

Scanf(‘’%d”’, &n);

For (i=1; I <=10; ++i) {

Printf(“’%d \* %d =%d \n”, n,I, n \* i);}

}

Return 0;

}

5 #include <stdio.h>

int main()

{

int a = 1;

while (a <= 10)

{

Printf ( ‘’Hello world\n’’ );

a ++;

}

return 0;

}

2 X=0

While X < 3 :

Y += 1 # wrong variable updated

Product =1

Count=1

While count <=10 :

Product \*= count

# forgot to update count

X= 0

While x < 5 :

Print(X)

X +=1 # update statement is indented one level too little,so it’s outside the loop body

X=0

While X ! = 5:

Print(X)

X += 2 # X will never equal 5, because we are counting in even numbers!

1 # numbers is alist of numbers --- we don’t know what the numbers are!

Total =0

i=0

while i < len(numbers) and total < 100:

total += numbers [i]

i += 1