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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