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Level:200

Course : Csc 206

Question 1

Write a program that count from 100 to 1 varying the control variable in the steps of 3 and printing its square for each count. Using **For** statement and **While** statement.

Answer

#include<stdio.h>

Int main(){

Return

}

//i

Void countfrom100(){

Int count,square;

For(count =100;count>0;count--)

Square =count\*count;

Print(“%d\n”, square);

}

Question 3

Write a program that reads an integer and displays a message to indicate whether it is a prime number or not. It is reminded that a prime number is any integer greater than 1 with no divisor other than 1 and itself.

int main()  
{  
  int n, c;

  printf("Enter a number to check if it's prime\n");  
  scanf("%d", &n);

  for (c = 2; c <= n/2; c++)  
  {  
    if (n%c == 0)  
    {  
      printf("%d is a composite number.\n", n);  
      break;  
    }  
  }

  if (c == n/2 + 1)

    printf("%d is prime.\n", n);

  return 0;  
}

Question 4

Write a c program to find factorial of a natural number

Answer

#include<stdio.h>

void findFactorial(int,int \*);

int main(){

int i,factorial,num;

printf("Enter a number: ");

scanf("%d",&num);

findFactorial(num,&factorial);

printf("Factorial of %d is: %d",num,\*factorial);

return 0;

}

void findFactorial(int num,int \*factorial)

int i;

\*factorial =1;

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

\*factorial=\*factorial\*i;

}

Question 5

Write a program in C that count from 50 to 1000 varying the control variable in steps of 7 using **do While** statement.

#include<stdio.h>

Int main(){

Return

}

//i

Void countfrom50(){

Int count;

While(count =50;count>1000;count++)

Print(“%d\n”, );

}

Question 6

Using conditional operator, write a program in C programming Language to find if a given character is a consonant or a vowel.

#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')

{

printf("\n %c is a VOWEL.", ch);

}

else {

printf("\n %c is a CONSONANT.", ch);

}

return 0;

}

Question 7

Write a program (using FOR statement) that reads an integer and displays its multiplication table. The program should force the user to enter an integer within [1, 10].

Answer

#include <stdio.h>

 int main()

{

int number, i = 1;

printf(" Enter the Number:");

scanf("%d", &number);

printf("Multiplication table of %d:**\n** ", number);

printf("--------------------------**\n**");

while (i <= 10)

{

printf(" %d x %d = %d **\n** ", number, i, number \* i);

i++;

}

return 0;

}

Question 9

**Write a C program to find the product of 8 integers entered by a user. If user enters 0 skip**  **it. (Hint: using continue statement)**

include<stdio.h>

#include<conio.h>

void main()

{

int one, two,three, four, five, six, seven, eight multiply;

printf("Enter first number - ");

scanf("%d",&one);

printf("Enter second number - ")

scanf("%d",&two);

printf("Enter third number - ")

scanf("%d",&three);

printf("Enter fourth number - ")

scanf("%d",&four);

printf("Enter fifth number - ")

scanf("%d",&five);

printf("Enter sixth number - ")

scanf("%d",&six);

printf("Enter seventh number - ")

scanf("%d",&seven);

printf("Enter eight number - ")

scanf("%d",&eight);

multiply = one \* two \*three \* four \*five \*six \*seven \*eight ;

printf("The multiplication of numbers is %d",one,two,multiply);

getch();

}