**A PROGRAM THAT COUNT FROM 100 TO 1 VARYING THE CONTROL VARIABLES IN THE STEPS OF 3 AND PRINTING ITS SQUARE FOR EACH COUNT 1**

#include<stdio.h>

int main(){

}

viod counting 100(){

Int num,square;

for(num=100;num>0;count--){

square = count\*count;

printf(“%d\n”,square);

return 0;

}

}

**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. 3**

#include<stdio.h>

int main(){

}

void checkPrime(){

int n, i, flag = 0;

printf("Enter a positive integer: ");

scanf("%d", &n);

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

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 number.", n);

else

printf("%d is not a prime number.", n);

return 0;

}

}

**A C PROGRAM TO FIND FACTORIAL OF A NATURAL NUMBER 4**

#include<stdio.h>

int main(){

}

void factorialNum(){

int n, i;

unsigned long long fact = 1;

printf("Enter an integer: ");

scanf("%d", &n);

if (n < 0)

printf("Error! Factorial of a negative number doesn't exist.");

else {

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

fact \*= i;

}

printf("Factorial of %d = %llu", n, fact);

return 0;

}

}

**A PROGRAM IN C THAT COUNT FROM 50 TO 1000 VARYING THE CONTROL VARIABLE IN STEPS OF 7 USING DO WHILE STATEMENT. 5**

#include <stdio.h>

int main()

{

int i=50;

while (i<101)

{

printf(“%d/n”,i);

i++;i++;i++;i++;i++;i++;i++;

}

return 0;

}

**A PROGRAM IN C PROGRAMMING LANGUAGE TO FIND IF A GIVEN CHARACTER IS A CONSONANT OR A VOWEL. 6**

#include<stdio.h>

int main(){

}

void checkAlphabets(){

char a;

int lowercase, uppercase;

printf("Enter an alphabet: ");

scanf("%a", &a);

// evaluates to 1 if variable c is lowercase

lowercase = (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u');

// evaluates to 1 if variable c is uppercase

uppercase = (c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U');

// evaluates to 1 if c is either lowercase or uppercase

if (lowercase || uppercase)

printf("%c is a vowel.", c);

else

printf("%c is a consonant.", c);

return 0;

}

**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]. 7.**

#include <stdio.h>

int main()

{

void findMultiplication(){

int number , i ,final;

printf("Enter a number to show Multiplication ");

scanf("%d", &number);

for(i = 1 ; i <= 12 ; i++){

final = number \* i

printf(" The Multiplication of %d \* %d = %d"\n, number, i,final);

return 0;

}

}

**A C PROGRAM TO FIND THE PRODUCT OF 8 INTEGERS ENTERED BY A USER. IF USER ENTERS 0 SKIP**   **IT.9**

#include<stdio.h>

int main(){

}

void findProduct(){

int i , number;

int final = 1;

for(i = 0 ; i<8 ; i++){

printf("Enter a number that will be multiplied");

scanf("%d", &number);

if(number == 0){

continue;

}else{

final \*= number

return 0;

}

}