**ADEPEGBA USMAN**

 **19/sci01/091**

 **COMPUTER SCIENCE**

**Question 1**

#include<stdio.h>

int main()

{

void countFrom100();

 {

int count, square;

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

 {

square = count\*count;

printf("%d\n",square);

 } }

return 0;

}

**Question 3**

#include<stdio.h>

int main()

{

void countFrom100();

 {

int count, square;

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

 {

square = count\*count;

printf("%d\n",square);

 } }

return 0;

}

**Question 4**

#include<stdio.h>

int main()

{

int n, i, fact = 1;

printf("Enter an integer: ");

scanf("%d", &n);

 //shows error if the user enters a negative integer

if(n < 0) {

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

 }

else{

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

fact = fact\*i;

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

 }

 }

}

**Question 5**

#include<stdio.h>

int main()

{

int n = 50;

do{

printf("n is equal to: %d\n", n);

n+=7;

 }

while(n <= 1000);

return 0;

}

**Question 6**

#include<stdio.h>

int main()

{

char c;

printf("Enter any alphabet: ");

scanf(" %c", &c);

if(c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u' || c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U')

 {

printf("\n %c is a vowel", c);

 }

else{

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

 }

return 0;

}

**Question 7**

#include<stdio.h>

int main()

{

int number, i, final;

printf("Enter a number to show its multiplication: ");

scanf("%d", &number);

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

final = number\*i;

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

 }

return 0;

}

**Question 9**

#include<stdio.h>

int main()

{

inti, number;

int final = 1;

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

printf("Enter a number to be multiplied: ");

scanf("%d", &number);

if(number == 0){

continue;

 }

else{

final \*= number;

 }

 }

printf("The final answer is %d", final);

return 0;

}

**Question 10**

#include<stdio.h>

int main()

{

int years;

double pop, growth;

printf("Enter the population in a year: ");

scanf("%lf", &pop);

printf("Enter the annual percentage population growth rate: ");

scanf("%lf", &growth);

printf("Enter number of years: ");

scanf("%d", &years);

inti = 1;

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

 {

pop += (pop / 100) \* growth;

printf("\nYear %d: %2.lf\n", i, pop);

 }

return 0;

}