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**MATRIC NUMBER: 19/sci01/098**

**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 o f %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()

{

int i, 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);

int i = 1;

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

{

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

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

}

return 0;

}