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**18/sci01/003**

**COMPUTER SCIENCE 200 LEVEL**

**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()  
{  
    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: %2.1f\n", i, pop);
    }
    return 0;
}
```