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DEPARTMENT: COMPUTER SCIENCE 200 LEVEL

Question 1

```c
#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

```c
#include<stdio.h>
int main()
{
   void countFrom100();
```

```c
{
    int count, square;
    for(count = 100;count > 0; count--)
{
    square = count*count;
    printf("%d\n",square);
}   }
return 0;
}
```

Question 4

```c
#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){
```

```c
        fact = fact*i;
        printf("Factorial o f %d = %d", n, fact);
    }
  }
}
```

Question 5

```c
#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

```c
#include<stdio.h>
int main()
{
   char c;
```

```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

```c
#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);
```

```c
    }
    return 0;
}
```

Question 9

```c
#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

```c
#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;
}
```