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DEPARTMENT: 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 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;
}
```