

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 ==
'l' || 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;
}
```

