Assignment 6

1.

```c
 #include <stdio.h>
#include <conio.h>

int main()
{
    int n,sum=0;
    scanf("%d", &n);
    for (int i = 0; i <=n; i++)
    {
        sum+=i;
    }
        printf("%d",sum);
        return 0;
}
```

2.

```c
#include <stdio.h>
#include <conio.h>

int main()
{
    int n,sum=0;
    scanf("%d", &n);
    for (int i = 0; i <=n; i+=2)
    {
        sum+=i;
    }
        printf("%d",sum);
        return 0;
}
```

3.

```c
#include <stdio.h>
#include <conio.h>

int main()
{
    int n,sum=0;
    scanf("%d", &n);
    for (int i = 1; i <=n; i+=2)
```

```
    {
        sum+=i;
    }
        printf("%d",sum);
        return 0;
}
```

4.

```
#include <stdio.h>
#include <conio.h>

int main()
{
    int n,sum=0;
    scanf("%d", &n);
    for (int i = 0; i <=n; i++)
    {
        sum=sum+(i*i);
    }
        printf("%d",sum);
        return 0;
}
```

5.

```
#include <stdio.h>
#include <conio.h>

int main()
{
    int n,sum=0;
    scanf("%d", &n);
    for (int i = 0; i <=n; i++)
    {
        sum=sum+(i*i*i);
    }
        printf("%d",sum);
        return 0;
}
```

6.

```
#include<stdio.h>
#include<conio.h>
 int fact(int n)
 {
    if(n==0 || n==1)
    return 1;
```

```
    else
    return (n*fact(n-1));
 }
int main()
{
   int n;
   scanf("%d",&n);
    printf("%d",fact(n));
    return 0;
}
```

7.

```
#include<stdio.h>
#include<conio.h>

int main()
{
    int n,count=0;
    scanf("%d",&n);
    while(n!=0)
    {
        n=n/10;
        count++;
    }
    printf("%d",count);
    return 0;
}
```

8.

```
#include <stdio.h>

#include <conio.h>

int main()
{
    int n, i, flag = 0;
    scanf("%d", &n);
    for (int i = 2; i < n / 2; i++)
    {
        if (n % i == 0)
        {
            printf("this number is not a prime number\n");
            flag = 1;
            break;
        }
    }
    if (flag == 0)
    {
        printf("This number is a prime number");
```

```
    }

    return 0;
}
```

9.

```
#include<stdio.h>
#include<conio.h>

int main()
{
   int n1,n2,max;
   scanf("%d%d",&n1,&n2);
   max=n1>n2?n1:n2;
   while(1)
   {
    if(max%n1 ==0 && max%n2 ==0)
    {
        printf("%d",max);
        break;
    }
    max++;
   }

    return 0;
}
```

10.

```
#include<stdio.h>
#include<conio.h>

int main()
{
    int n,rev=0,rem;
    scanf("%d",&n);
    for(int i=1;i<n;i++)
    {
        rem=n%10;
        n=n/10;
        rev=rev*10+rem;
    }
    printf("%d",rev);
    return 0;
}
```