- חלק א.

```c
#include <stdio.h>
int main()
{
int n,p=1,i;
printf("enter a number to multiply by itself: ");
scanf("%d",&n);
for (i=1; i<=n; i++)
{
p*=n;
}
printf("pow=%d",p);
}
```

- חלק ב .

```c
#include <stdio.h>
int main()
{
int n,p=1,i,sum;
printf("enter a number to get the sum of powers from 1 to n: ");
scanf("%d",&n);
for (n; n>0; n--)
{
for (i=1; i<n+1; i++)
{
p*=n;
}
sum+=p;
p=1;
}
printf("sum=%d",sum);
}
```

- חלק א .

```c
#include <stdio.h>
int main()
{
int count=0,num;
printf("enter a number: ");
scanf("%d",&num);
for(; num!=0; count++)
num/=10;
printf("count=%d",count);
}
```

- חלק ב .

```c
#include <stdio.h>
int main()
{
int count=0,num,i;
for (i=1; i<=10; i++)
{
printf("enter a number: ");
scanf("%d",&num);
for( ; num!=0; count++)
num/=10;
}
printf("count=%d",count);
}
```