**שאלה1 :**

* חלק א.

**#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 .

**#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);**

**}**

**שאלה 2 :**

* חלק א .

**#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 .

**#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);**

**}**