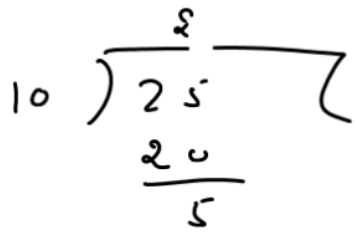
WAP to accept an integer from the user and calc and print the SUM OF THE DIGITS of that number.

SAMPLE OUTPUT
==========
Enter an int:
259
Sum of digits is 16



SAMPLE OUTPUT
==========
Enter an int:
1259
Sum of digits is 17

SAMPLE OUTPUT
==========
Enter an int:
94
Sum of digits is 13

```
#include<stdio.h>
int main()
{
   int n,sum=0,rem;
   printf("Enter an int:");
   scanf("%d",&n);
    while( n>0  )
    {
        rem=n%10;
        sum=sum+rem;
        n=n/10;
    }
printf("Sum is %d",sum);
return 0;
}
```

n=259, Sum=0, rem=?
25
2
0
16

① rem = 259 % 10 => 9
Sum = 0 + 9 => 9

② rem = 25 % 10 => 5
Sum = 9 + 5 => 14

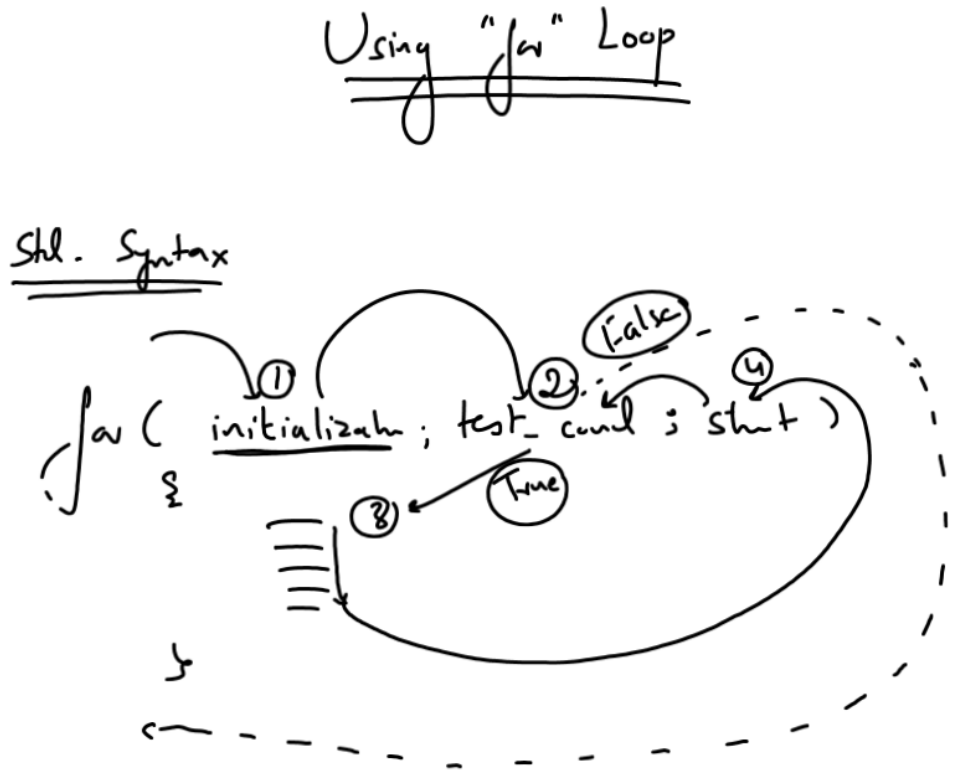
③ rem = 2 % 10 => 2
Sum = 14 + 2 => 16

Sum += rem;
n /= 10;

Assignments
==========
Qn1. WAP to accept an int from the user and print its REVERSE

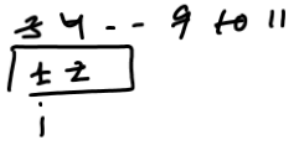
SAMPLE OUTPUT
==========
Enter an int:
259
Reverse is 952

Qn2. WAP to accept an int from the user and print the sum of its FIRST and LAST digit only.
SAMPLE OUTPUT
==========
Enter an int:
259
Sum of first and last digit is 11



```
#include <stdio.h>
int main()
{
   int i;

   for(i=1;i<=10;i++)
    {
          printf("\n%d",i);
    }
return 0;
}
```

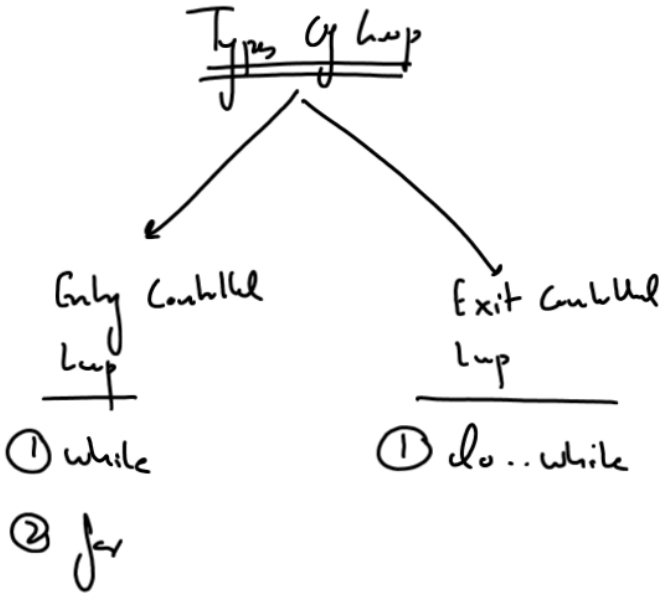


o/p

1
2
3
4
.
.
9
10

GUESS THE OUTPUT
==========
```
#include <stdio.h>
int main()
{
   int i;

   for(i=1;i>=10;i++)
   {
          printf("\n%d",i);
   }
return 0;
}
```
OUTPUT
======
Blank



WAP to print numbers from 10 to 1 using for loop

```
#include <stdio.h>
int main()
{
   int i;

   for(i=10;i>=1;i--)
    {
          printf("\n%d",i);
    }
return 0;
}
```

WAP to accept an integer from the user and print all the numbers from 1 to that number

```
#include <stdio.h>
int main()
{
   int i,n;
   printf("Enter an int:");
   scanf("%d",&n);
   for(i=1;i<=n;i++)
          printf("\n%d",i);
   return 0;
}
```

WAP to accept an integer from the user and print sum of all the nos from 1 to that number.

```
int main()
{
   int i,n,sum=0;
   printf("Enter an int:");
   scanf("%d",&n);

   for(i=1;i<=n;i++)
         sum=sum+i;
   printf("Sum is %d",sum);
   return 0;
}
```

a) Sum = 0 + 1 => 1

b) Sum = 1 + 2 => 3

c) Sum = 3 + 3 => 6

d) Sum = 6 + 4 => 10

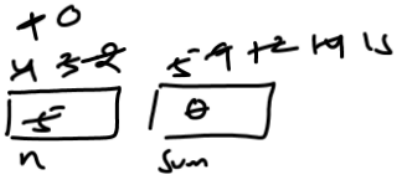
e) Sum = 10 + 5 => 15

Previous Code Using Only 2 Var

```
int main()
{
   int n,sum;
   printf("Enter an int:");
   scanf("%d",&n);

   for(sum=0; n>0;n--)
         sum=sum+n;

   printf("Sum is %d",sum);
   return 0;
}
```



a) Sum = 0 + 5 => 5

b) Sum = 5 + 4 => 9

c) Sum = 9 + 3 => 12

d) Sum = 12 + 2 => 14

e) Sum = 14 + 1 => 15