

Joy of coding day 3

Program 1

```
6 //*****
7
8
9 #include <stdio.h>
10 int main()
11 {
12     int n,c,rem=0,f=0,rev;
13     printf("Enter any Number : ");
14     scanf("%d",&c);
15     n=c;
16     printf("Individual digits are\n");
17     while(n>0)
18     {
19         rem=n%10;
20         f++;
21         printf("%d ",rem);
22         n/=10;
23     }
24
25     printf("\nCount of digits is %d",f);
26     printf("\nReverse of %d is : ",c);
27     while(c>0)
28     {
29         rev=c%10;
30         printf("%d",rev);
31         c/=10;
32     }
33
34     return 0;
35 }
36
37
38
```

input

Enter any Number : 5678
Individual digits are
5 6 7 8
Count of digits is 4
Reverse of 5678 is : 8765
...Program finished with exit code 0
Press ENTER to exit console.

Program 2

```
1 //*****
2
3 Online C Compiler.
4 Code, Compile, Run and Debug C program online.
5 Write your code in this editor and press "Run" button to compile and execute it.
6
7 //*****
8
9 #include<stdio.h>
10 int main()
11 {
12     int n,d,sum=0;
13     printf("Enter a number\n");
14     scanf("%d",&n);
15     while(n>0)
16     {
17         d=n%10;
18         sum+=d;
19         n=n/10;
20     }
21     printf("the sum of digits is %d\n",sum);
22
23     if(sum>10)
24     {
25         d=sum%10;
26         sum/=10;
27         sum+=d;
28         printf("(Single digit sum is %d)",sum);
29     }
30
31     return 0;
32 }
33
34
```

input

Enter a number
15678
the sum of digits is 27
(Single digit sum is 9)
...Program finished with exit code 0
Press ENTER to exit console.

input

Enter a number
75389
the sum of digits is 32
(Single digit sum is 5)
...Program finished with exit code 0
Press ENTER to exit console.

Program 3

```
8 *****/
9 //Program 3
10 #include <stdio.h>
11
12 void main()
13 {
14     int num,a,b,sum=0;
15     scanf("%d",&num);
16     if(num == 0)
17         sum = 1;
18     else
19     {
20         while(num!=0)
21         {
22             a = num%10;
23             sum = sum + (a+1);
24             num = num/10;
25         }
26     }
27     printf("%d\n",sum);
28 }
```

3456
22

...Program finished with exit code 0
Press ENTER to exit console.

0
1

...Program finished with exit code 0
Press ENTER to exit console.

111
6

...Program finished with exit code 0
Press ENTER to exit console.

Program 4

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,temp,i;
5     printf("Enter n: ");
6     scanf("%d",&n);
7     temp=n;
8     printf("digits extracted: ");
9     while(n>0)
10     {
11         i=n%10;
12         if(i)
13             printf("%d,",i);
14         n=n/10;
15     }
16     return 0;
17 }
```

Enter n: 2035
digits extracted: 5,3,2,

...Program finished with exit code 0
Press ENTER to exit console.

Program 5

```
1- /******  
2- |  
3- | Online C Compiler.  
4- | Code, Compile, Run and Debug C program online..  
5- | Write your code in this editor and press "Run" button to compile and execute it.  
6- |  
7- | *****/  
8-  
9- #include<stdio.h>  
10- int main()  
11- {  
12-     int code,acode,n,i;  
13-     i=1;  
14-     printf("enter the code\n");  
15-     scanf("%d",&code);  
16-     acode=0;  
17-     while(code>0)  
18-     {  
19-         n=code%10;  
20-         code=code/10;  
21-         if(n==9)  
22-             acode=acode+0;  
23-         else  
24-             acode=acode+(n+1)*i;  
25-         i=i*10;  
26-     }  
27-     printf("actual code %d",acode);  
28- }
```

enter the code
8245
actual code 9356
...Program finished with exit code 0
Press ENTER to exit console.

enter the code
2995
actual code 3006
...Program finished with exit code 0
Press ENTER to exit console.

enter the code
4184
actual code 5295
...Program finished with exit code 0
Press ENTER to exit console.