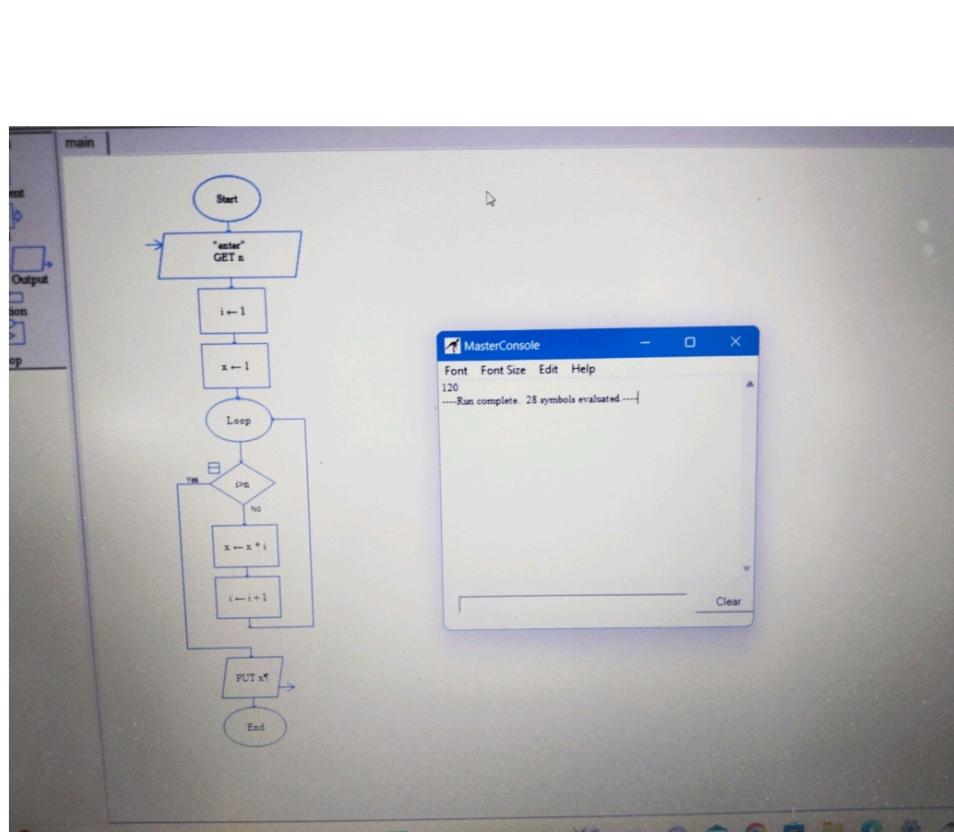


```
main.c
1 #include <stdio.h>
2
3 void main()
4 {
5     int n,i,p;
6     int a=1;
7     printf("enter the number :");
8     scanf("%d",&n);
9     for(i=1;i<=n;i++)
10    {
11        a=a*i;
12    }
13    printf("%d",a);
14
15 }
16
17
```

enter the number :5
120
...Program finished with exit code 0
Press ENTER to exit console.



- ① Step 1 : Begin
- Step 2 : ~~Def~~ Declare variables n
- Step 3 : Assign a to a b to 1
- Step 4 : Create loop with initialization
for i to 10 and ($i \leq 20$)
- Step 5 : print a in the loop
- Step 6 : assign 1 to b.
- Step 7 : Assign a to b
- Step 8 : close loop
- Step 9 : Stop.

- ⑩ Step 1: Begin
- Step 2: Assign $i=0$ result = 0
- Step 3: declare n variable
- Step 4: for loop $P \neq 0$ increment
- Step 5: Create a loop $P \neq 0$
- Step 6: assign rule $P \% 10$
- Step 7: if ($P = n$). then
- Step 8: printf
- Step 9: Stop.

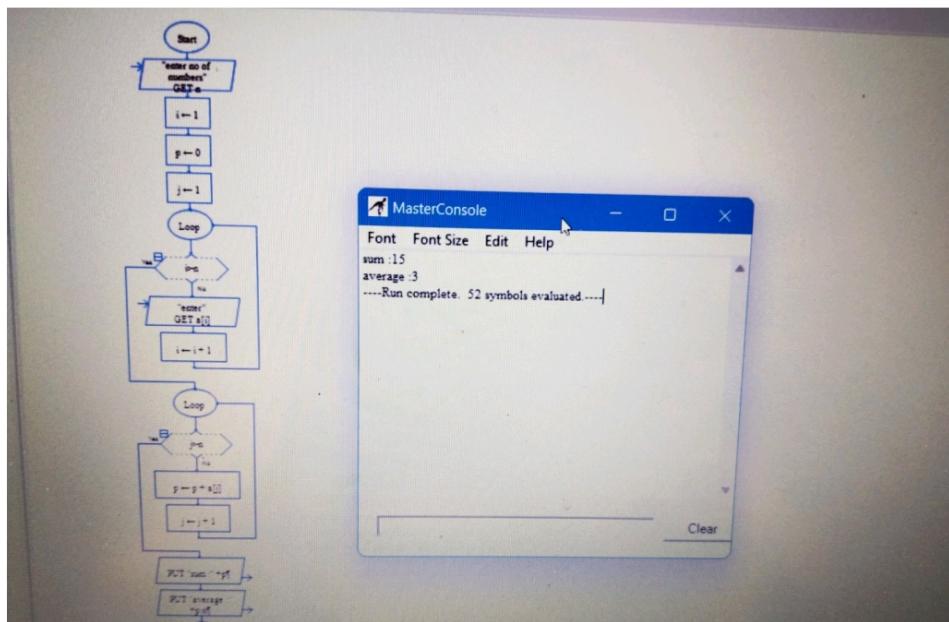
```

main.c
1 #include <stdio.h>
2
3 void main()
4 {
5     int n,p=0,avg;
6
7     printf("enter no of numbers ::");
8     scanf("%d",&n);
9     int a[n];
10    for (int i=0;i<n;i++)
11    {
12        scanf("%d",&a[i]);
13    }
14    for(int j=0;j<n;j++)
15    {
16        p=p+a[j];
17    }
18    printf("sum of numbers is %d",p);
19    printf("\n average :: %d",p/n);
20
21 }
22
23

```

enter no of numbers ::5
1
2
3
4
5
sum of numbers is 15
average :: 3
... Program finished with exit code 0
Press ENTER to exit console.

46



(16)

Step 1 : Begin

(17)

Step

Step 2 : Declare variables.

3

Step 3 : input No. of variables.

Step 4 : create loop so that

Sum of all elements

Step 5 : close the loop

Step 6 : print Sum & Average

Step 7 : Stop

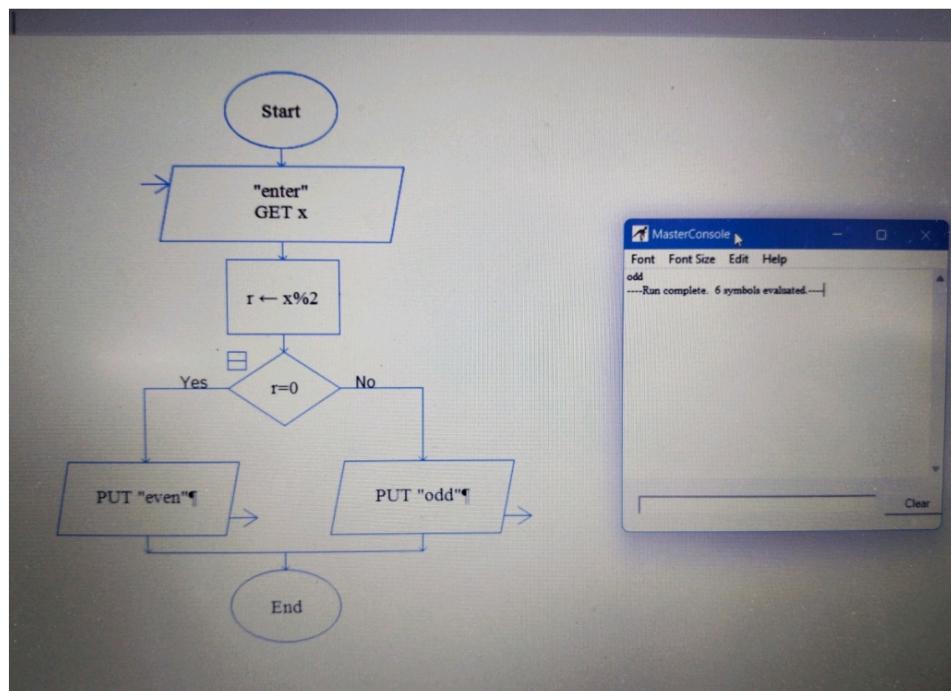
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main.c

```
1 #include <stdio.h>
2
3 void main()
4 {
5     int n;
6     printf("enter the number:");
7     scanf("%d", &n);
8     if(n%2==0)
9     {
10         printf("the given number is even");
11     }
12     else
13     {
14         printf("the given number is odd");
15     }
16 }
17
18 }
```

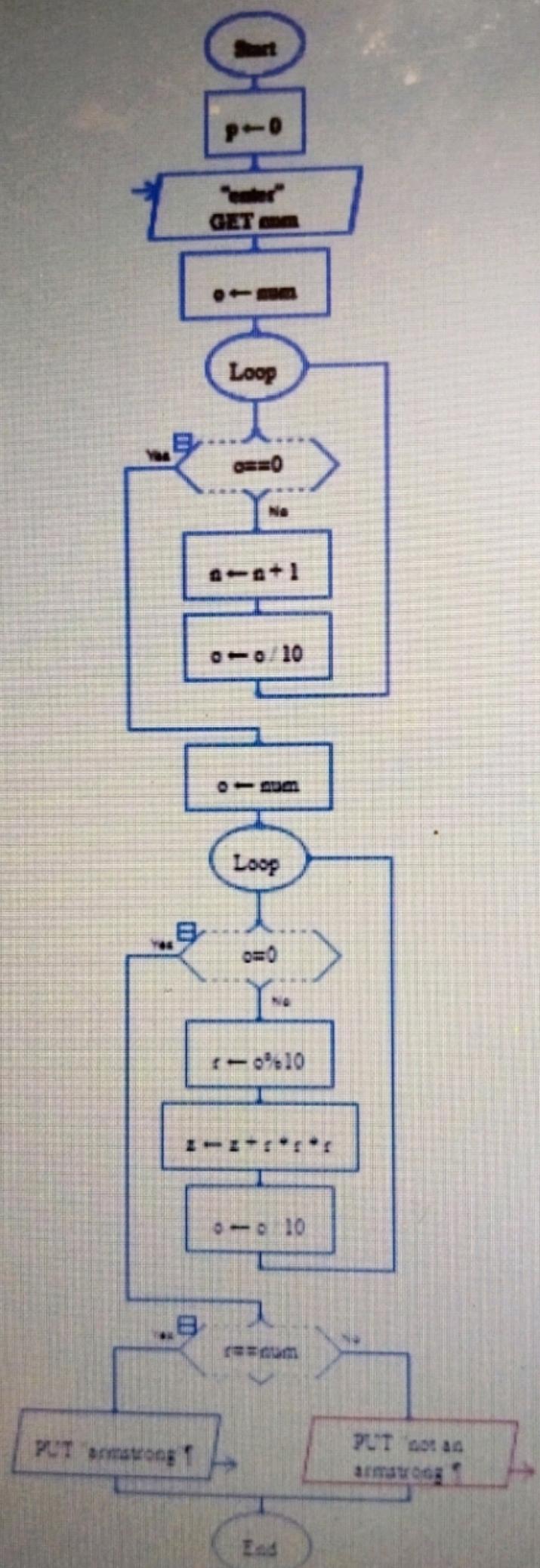
enter the number :5
the given number is odd
...Program finished with exit code 0
Press ENTER to exit console.

hp



```
1 #include <math.h>
2 #include <stdio.h>
3 int main() {
4     int num, originalNum, remainder, n = 0;
5     float result = 0.0;
6
7     printf("Enter an integer: ");
8     scanf("%d", &num);
9
10    originalNum = num;
11    for (originalNum = num; originalNum != 0; ++n) {
12        originalNum /= 10;
13    }
14    for (originalNum = num; originalNum != 0; originalNum /= 10) {
15        remainder = originalNum % 10;
16        result += pow(remainder, n);
17    }
18    if ((int)result == num)
19        printf("%d is an Armstrong number.", num);
20    else
21        printf("%d is not an Armstrong number.", num);
22    return 0;
23 }
24 }
```

```
Enter an integer: 4561
4561 is not an Armstrong number.
I
...Program finished with exit code 0
Press ENTER to exit console.
```



(12)

Step 1 : Begin

Step 2 : Declare variables

Step 3 : assign value = 6

Step 4 : Create loop with $n > 0$; i++

Step 5 : printf

Step 6 : End. (stop)

(13)

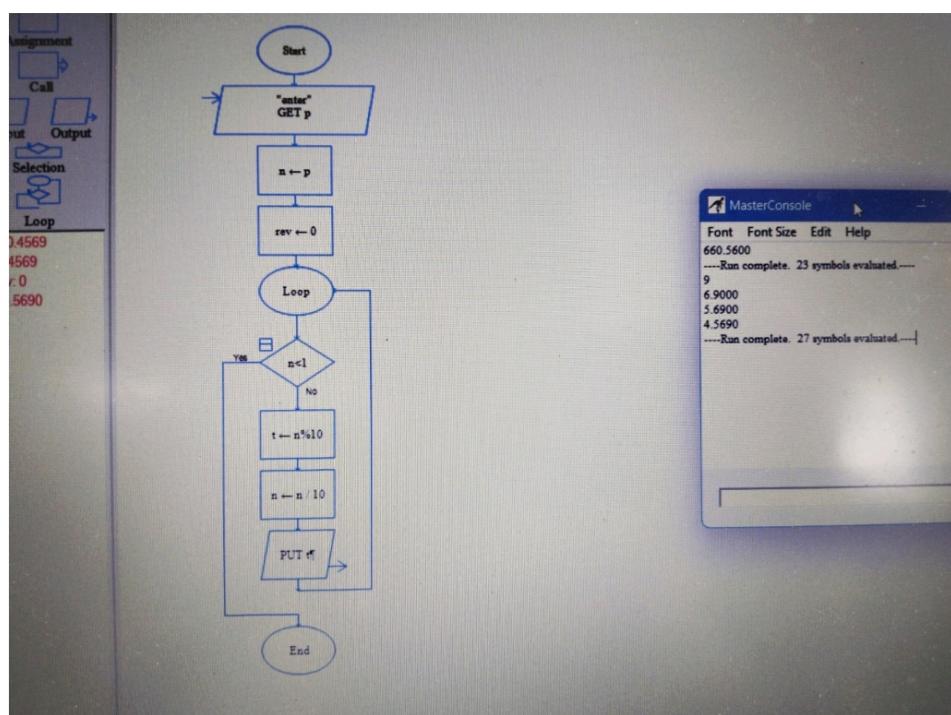
Step 1 : begin

- Step 1 : Begin
- Step 2 : Declare variable
- Step 3 : Assign values
- Step 4 : Close the loop
- Step 5 : print
- Step 6 : Stop.

```
1
2 #include <stdio.h>
3
4 void main()
5 {
6     int n,rem,rev=0;
7     printf("enter the number :");
8     scanf("%d",&n);
9     printf("digits of the numbers are :");
10    for(int i=0;n>1;i++){
11        rem=n%10;
12        n=n/10;
13        printf(" %d",rem);
14    }
15
16 }
17
```

```
enter the number :456
digits of the numbers are : 6 5 4
...Program finished with exit code 0
Press ENTER to exit console.
```

< 41a72acd-db52-40d9-915b-f83
771295006



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⑨ Step 1 : Begin

Step 2 : Declaration of variable

Step 3 : Create loop with condition

Step 4) $n > 0$ End the loop and printf

Step 5) stop.

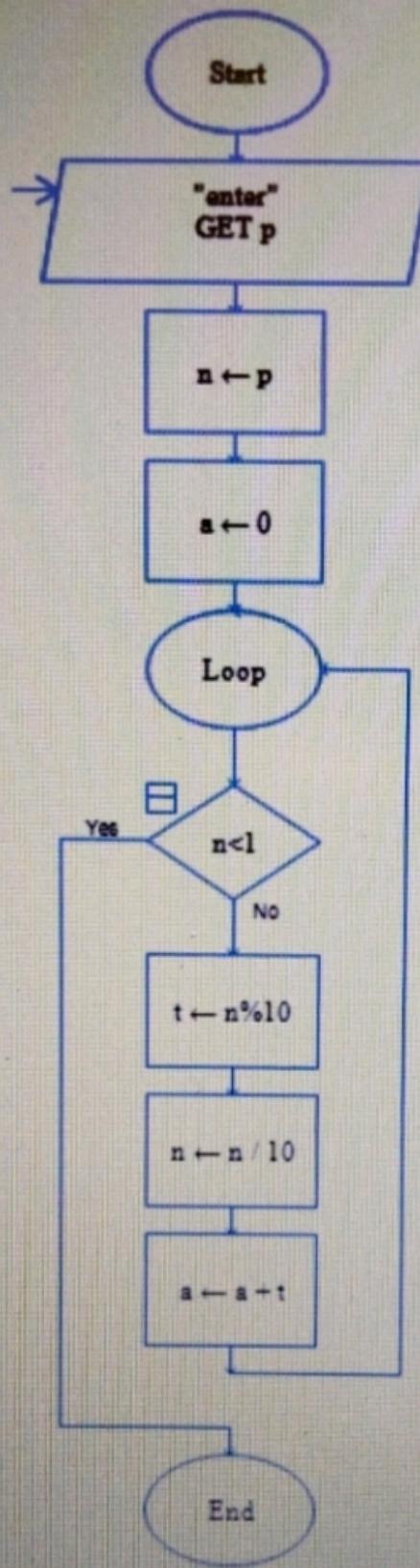
Step 1 : Begin

```
1
2 #include <stdio.h>
3
4 void main()
5 {
6     int n,rem,rev=0;
7     printf("enter the number :");
8     scanf("%d",&n);
9     for(int i=0;n>1;i++){
10         rem=n%10;
11         n=n/10;
12         rev=rev+rem;
13     }
14     printf("sum of its digits = %d",rev);
15 }
16
```

```
enter the number :456
sum of its digits = 15

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





(28)

Step 1 : Begin

Step 2 : Declaration of variable

Step 3 : Assign P to $n/2$

Step 4: P is equal to zero

Step 5: Stop.

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main.c

```
1 #include <stdio.h>
2
3 void main()
4 {
5     int n;
6     printf("enter the number:");
7     scanf("%d",&n);
8     if(n%2==0)
9     {
10         printf("the given number is even");
11     }
12     else
13     {
14         printf("the given number is odd");
15     }
16 }
17
18 }
```

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Input

```
enter the number:15
the given number is odd
...Program finished with exit code 0
Press ENTER to exit console.
```

hp

