For , while & do while loop problem

1. Summation of series-i

```c
#include<stdio.h>
int main()
{
    int n,sum=0,i;
    printf("Enter the last number of the series: ");
    scanf("%d",&n);

    printf("1+2+3+.....+%d",n);

    for (i=1;i<=n;i++)
    {
     sum = sum + i;
     printf("%d\n",sum);
    }
     getch();

}
```

```
C:\Users\Student\Documents\practise.exe
Enter the last number of the series: 3
1+2+3+.....+31
3
6

Process returned 0 (0x0)   execution time : 6.885 s
Press any key to continue.
```

```c
#include<stdio.h>
int main()
{
    int n,sum=0,a=1;
    printf("Enter the last number of the series: ");
    scanf("%d",&n);

    printf("1+2+3+.....+%d",n);

    while(a<=n)
    {
     sum = sum + a;
     a = a + 1;
     printf("%d\n",sum);
    }
     getch();

}
```

```
C:\Users\Student\Documents\practise.exe
Enter the last number of the series: 4
1+2+3+.....+41
3
6
10

Process returned 0 (0x0)   execution time : 8.485 s
Press any key to continue.
```

art here | practise.c | series 3.c

```c
// 1*2+2*3*4+....+n1*n2
#include<stdio.h>
int main()
{
  int n1,n2,sum=0,a=1,b=2;
  printf("Enter n1 and  n2 : ");
  scanf("%d %d",&n1,&n2);

  printf("1.2 + 2.3 + 3.4 + ....+ %d.%d",n1,n2);

  while(a<=n1 && b<=n2)
  {
    sum = sum + a*b;
    a = a + 1 ;
    b = b + 2 ;

  }

    printf("= %d\n",sum);


}
```

```
"C:\Users\Student\Desktop\series 3.exe"
Enter n1 and  n2 : 4 5
1.2 + 2.3 + 3.4 + ....+ 4.5= 10

Process returned 0 (0x0)   execution time : 4.040 s
Press any key to continue.
```

Start here | practise.c | series 3.c | su,mmation of series.c

```c
// 1 + 2 + 3 + ..... + n
#include<stdio.h>
int main()
{
    int i,n,sum = 0 ;

    printf("Enter n = ");
    scanf("%d",&n);
    for (i=1; i<=n; i++)
    {
        printf("%d",i);
        sum = sum + i ;
    }
     printf("Sum = %d\n",sum);

}
```

```
"C:\Users\Student\Desktop\su,mmation of series.exe"
Enter n = 3
123Sum = 6

Process returned 0 (0x0)   execution time : 3.570 s
Press any key to continue.
```

Prev bookmark

```c
// 1.5 + 2.5 + 3.5 + ..... + n
#include<stdio.h>
int main()
{
    float  i,sum = 0,n;

    printf("Enter n = ");
    scanf("%f",&n);
    for (i=1.5; i<=n; i++)
    {
        sum = sum + i ;
    }
     printf("sum = %f\n",sum);

}
```

```
"C:\Users\Student\Desktop\su,mmation of series.exe"
Enter n = 5
sum = 12.000000

Process returned 0 (0x0)   execution time : 3.204 s
Press any key to continue.
```

Start here | practise.c | series 3.c | su,mmation of series.c

```c
//1^2+2^2+3^2+....+n
//1 | 2 | 3 | .......|n

#include<stdio.h>
int main()
{
    int n, i,sum = 0;

    printf("Enter n = ");
    scanf("%d",&n);
    for (i=1; i<=n; i++)
    {
        sum = sum + i*i ;
    }
     printf("sum = %d\n",sum);

}
```

```
"C:\Users\Student\Desktop\su,mmation of series.exe"
Enter n = 4
sum = 30

Process returned 0 (0x0)   execution time : 1.553 s
Press any key to continue.
```

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