

main.c



Run

Output

```
3 int n,i=2,flag=0;
4 printf("Enter the value for n:");
5 scanf("%d",&n);
6 while(i<=n/2) {
7     if(n%i==0) {
8         flag=1;
9         break;
10    }
11    ++i;
12 }
13 if(n==1) {
14     printf("1 is neither prime nor composite");
15 }
16 else
17 {
18     if(flag==0)
19         printf("%d is a prime number",n);
20     else
21         printf("%d is not a prime number",n);
22 }
23 return 0;
```

/tmp/oP50x8It7J.o  
Enter the value for n:3  
is a prime number



```
main.c
4 {
5     int x, sum, ctr, i=1, n, m, mm, nn;
6     printf("Enter the value for x:");
7     scanf("%d", &x);
8     printf("Enter the value for n:");
9     scanf("%d", &n);
10    sum=x;
11    m=-1;
12    printf("The value of the series:\n");
13    printf("%d\n", x);
14    do
15    {
16        ctr=(2*i+1);
17        mm=pow(x, ctr);
18        nn=mm*m;
19        printf("%d\n", nn);
20        sum=sum+nn;
21        m=m*(-1);
22        i++;
23    }
```

Output

```
/tmp/oPS0x81c71.o
Enter the value for x:4
Enter the value for n:7
The value of the series:
4
-64
1024
-16384
262144
-4194304
67108864

The sum=63161284
```

```
1 #include <stdio.h>
2 int main() {
3     int n,r=0;
4     printf("Enter the number:");
5     scanf("%d",&n);
6     do {
7         r=r*10;
8         r=r+n%10;
9         n=n/10;
10    }
11    while(n!=0);
12    printf("Reverse of the number is:%d\n",r);
13    return 0;
14 }
```

Output

/tmp/oP50x8Ir7J.o  
Enter the number:34578  
Reverse of the number is:87543

main.c



Output

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i;
5     printf("enter the number");
6     scanf("%d",&n);
7     i=1;
8     while(i<=10)
9     {
10    printf("%d * %d = %d\n",n,i,n*i);
11    ++i;
12    }
13    return(0);
14 }
```

```
/tmp/vB80IpELxd.o
enter the number 3
3
3 * 1 = 3
3 * 2 = 6
3 * 3 = 9
3 * 4 = 12
3 * 5 = 15
3 * 6 = 18
3 * 7 = 21
3 * 8 = 24
3 * 9 = 27
3 * 10 = 30
```

main.c



Output

```
1 #include<stdio.h>
2 void main()
3 {
4     int j,sum=0;
5     printf("the first 10 natural number is :\n");
6     for(j =1; j<=10; j++)
7     {
8         sum = sum + j;
9         printf("%d ", j);
10    }
11    printf("\nthe sum is : %d\n" , sum);
12 }
```

/tmp/vB80IpELxd.o  
the first 10 natural number is :  
1 2 3 4 5 6 7 8 9 10  
the sum is : 55

main.c



Run

Output

```
1 #include <stdio.h>
2 int main()
3 {
4     int n,i,j,k=1,s;
5     printf("Enter the value for n:");
6     scanf("%d",&n);
7     for(i=0;i<n;i++) {
8         for(s=1;s<=n-i;s++)
9             printf(" ");
10        for(j=0;j<=i;j++) {
11            if(j==0 || i==0)
12                k=1;
13            else
14                k=k*(i-j+1)/j;
15            printf(" %4d",k);
16        }
17        printf("\n");
18    }
19    return 0;
20 }
```

/tmp/oPS0x8It7J.o  
Enter the value for n:5

```
      1
     1 1
    1 2 1
   1 3 3 1
  1 4 6 4 1
```



main.c



Run

Output

```
1 #include<stdio.h>
2 int main()
3 {
4     int i,j,rows,k=1;
5     i=1;
6     printf("enter number of rows: ");
7     scanf("%d", &rows);
8     while(i<=rows)
9     {
10         j=1;
11         while(j <= i)
12         {
13             printf("%d ", k++);
14             j++;
15         }
16         i++;
17         printf("\n");
18     }
19     return (0);
20 }
```

```
/tmp/oP50x81c7j.o
enter number of rows: 4
1
2 3
4 5 6
7 8 9 10
```

```
Run Debug Stop Share Save Beautify
main.c
1 #include<stdio.h>
2 void main()
3 {
4     int i,j,rows;
5     printf("enter number of rows : ");
6     scanf("%d",&rows);
7     for(i=1;i<=rows;i++)
8     {
9         for(j=1;j<=i;j++)
10            printf("*");
11        printf("\n");
12    }
13 }
14

enter number of rows : 4
*
**
***
****
```



```
1 #include<stdio.h>
2 #include<conio.h>
3 void main()
4 {
5     int num,i,sum=0;
6     printf("enter the number\n");
7     scanf("%d",&num);
8     i=1;
9     do
10    {
11        if((i%2)==0)
12            i++;
13        else
14        {
15            sum=sum+i;
16            i++;
17        }
18    }
19    while(i<=num);
20    printf("sum of odd numbers %d",sum);
21    getch();
22 }
```

enter the number

30

sum of odd numbers 225

...Program finished with exit code 255

Press ENTER to exit console.

main.c	Output
<pre>1 #include&lt;stdio.h&gt; 2 int main() 3 { 4     int i,n,t1=0,t2=1,nextTerm; 5     printf("enter the number of terms:"); 6     scanf("%d",&amp;n); 7     printf("fibonacci series :"); 8     for(i=1;i&lt;=n;i++) 9     { 10         printf("%d ",t1); 11         nextTerm = t1 + t2; 12         t1=t2; 13         t2=nextTerm; 14     } 15     return 0; 16 }</pre>	<pre>/tmp/oPS0x8It7J.o enter the number of terms:12 fibonacci series :0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89,</pre>

main.c

```
1 // main.c
2
3 {
4     int num, count=1, sum=0;
5     printf("enter a number :");
6     scanf("%d", &num);
7     while(count<num);
8     {
9         if(num%count==0)
10        {
11            sum=sum+count;
12        }
13        count++;
14    }
15    if(sum==num)
16    {
17        printf("\n%d is a perfect number\n", num);
18    }
19    else
20    {
21        printf("\n%d is not a perfect number\n", num);
22    }
```



Run

Output

```
/tmp/oP50x8It7J.o
enter a number :1
1 is a perfect number
```

main.c



Run

Output

```
1 #include <stdio.h>
2 void main()
3 {
4     float x,sum,t,d;
5     int i=1,n;
6     printf("Enter the value for x:");
7     scanf("%f",&x);
8     printf("Enter the value for n:");
9     scanf("%d",&n);
10    sum=1;
11    t=1;
12    while(i<n)
13    {
14        d=(2*i)*(2*i-1);
15        t=-t*x*x/d;
16        sum=sum+t;
17        i++;
18    }
19    printf("the sum= %f\n Value of n= %d\n Value of X=%.2f\n",sum,n
20    ,x);
```

/tmp/oPS0x8It7J.o

Enter the value for x:4

Enter the value for n:7

the sum= -0.650759

Value of n= 7

Value of X=4.00

main.c



Output

```
1 #include <stdio.h>
2 int main()
3 {
4     int i=1,j,k,n,t=1,g;
5     printf("Enter the value for n:");
6     scanf("%d",&n);
7     g=n+4-1;
8     do
9     {
10         for(k=g;k>=1;k--){
11             printf(" ");
12         }
13         for(j=1;j<=i;j++){
14             printf("%d",t++);
15         }
16         printf("\n");
17         g--;
18         i++;
19     } while(i<=n);
20     return 0;
21 }
```

*/tmp/oP50x8Ic7J.o*  
Enter the value for n:4  
1  
2 3  
4 5 6  
7 8 9 10



main.c

Run

```
1 #include <stdio.h>
2 #include <math.h>
3 int main() {
4     int a,b,n,on,rem,c=0;
5     double res=0.0;
6     printf("Enter 2 number:");
7     scanf("%d %d", &a,&b);
8     printf("Amstrong number between %d to %d are:",a,b);
9     for(n=a+1;n<b;++n)
10     {
11         on=n;
12         while(on!=0)
13         {
14             on=on/10;
15             ++c;
16         }
17         on=n;
18         while(on!=0)
19         {
20             rem=on % 10;
21             res+=pow(rem,c);
22             on/=10;
23         }
24         if(res==n)
25             printf("%d is an Amstrong number\n",n);
26         else
27             printf("%d is not an Amstrong number\n",n);
28         res=0.0;
29         c=0;
30     }
31 }
```

Output

```
/tmp/cPS0x8Ic7J.o
Enter 2 number:100 1000
Amstrong number between 100 to 1000 are:153 370 371 407
```



```
20         rem=on % 10;
21         res=res+ pow(rem, c);
22         on=on/10;
23     }
24     if(res==n)
25         printf("%d ",n);
26     c=0;
27     res=0;
28 }
29 return 0;
30 }
```