

... s5Q2.c C ass5Q3.c C ass5Q4and5.c C ass5Q6and7.c C ass5Q89and10.c ≡ ass6Q1.exe C ass6Q1.c C ass6Q12and3.c ●

SOURCES

1 #include<stdio.h>
2 int main()
3 { //Q1 SUM of first n natural no
4 int n,sum=0,se=0,so=0;
5 printf("enter the no\n");
6 scanf("%d",&n);
7 for(int i=1;i<=n;i++)
8 {
9 sum=sum+i;
10 }
11 printf("sum of first %d natural no is %d\n",n,sum);
12 // Q2sum of first n even natural no
13 for(int j=1;j<=2*n;j++)
14 { if(j%2==0)
15 se=se+j;
16 }
17 printf("sum of first %d even no is %d\n",n,se);
18 //Q3sum of first odd natural no
19 for(int k=1;k<=2*n;k++)
20 { if(k%2!=0)
21 so=so+k;
22 }
23 printf("sum of first %d odd no is %d\n",n,so);
24 }
25
26
27
28 }

```

C ass6Q4and5.c > main()
1  #include<stdio.h>
2  int main()
3  {
4      int i, n,ss=0,sc=0;
5      //Q4sum of square of first n natural no
6      printf("enter the no\n");
7      scanf("%d",&n);
8      printf("sum of squarae of first %d no :\n",n);
9      for( i=1;i<=n;i++)
10     {
11         ss=ss+i*i;
12     }
13     printf("%d\n",ss);
14     //Q5sum of cubes of first n natural no
15     printf("sum of cubes of first %d no :\n",n);
16     for( i=1;i<=n;i++)
17     {

```

Windows PowerShell
 Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

PS C:\Users\md shahid akhtar\c tutorial courses> cd "c:\Users\md shahid akhtar\c tutorial courses\" ; if (\$?) { gcc ass6Q4and5.c -o ass6Q4and5 }
 enter the no
 4
 sum of squarae of first 4 no :
 30
 sum of cubes of first 4 no :
 100
 PS C:\Users\md shahid akhtar\c tutorial courses> |

```

C ass6Q6.c > main()
1  #include<stdio.h>
2  int main()
3  { //to calculate a factorial of a given number
4      int a,fact=1;
5      printf("enter the no\n");
6      scanf("%d",&a);
7      for(int i=2;i<=a;i++)
8      {
9          fact=fact*i;
10     }
11     printf("factorial of %d is %d\n",a,fact);
12
13     return 0;
14
15 }
    
```

Windows PowerShell
 Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```

PS C:\Users\md shahid akhtar\c tutorial courses> cd "c:\Users\md shahid akhtar\c tutorial courses\" ; if ($?) { gcc ass6Q6.c -o ass6Q6 } ; if
}
enter the no
4
factorial of 4 is 24
PS C:\Users\md shahid akhtar\c tutorial courses>
    
```



```

C ass6Q7.c > main()
1  #include<stdio.h>
2  int main()
3  { //to count a number of digit of a given number
4      int a,count=0;
5      printf("enter the no\n");
6      scanf("%d",&a);
7      while(a!=0)
8      {
9          count=count+1;
10         a=a/10;
11     }
12     printf("%d digit no",count);
13     return 0;
14 }
    
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Code

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```

PS C:\Users\md shahid akhtar\c tutorial courses> cd "c:\Users\md shahid akhtar\c tutorial courses\" ; if ($?) { gcc ass6Q7.c -o ass6Q7 } ; if
}
enter the no
4
1 digit no
PS C:\Users\md shahid akhtar\c tutorial courses> cd "c:\Users\md shahid akhtar\c tutorial courses\" ; if ($?) { gcc ass6Q7.c -o ass6Q7 } ; if
}
enter the no
10
2 digit no
PS C:\Users\md shahid akhtar\c tutorial courses>
    
```

```

C ass6Q8.c > main()
1  #include<stdio.h>
2  int main()
3  {
4      int a,i;
5      printf("enter the no ");
6      scanf("%d",&a);
7      for( i=2;i<a;i++)
8      {
9          if(a%i==0)
10         {
11             printf("is it prime no:no");
12             break;
13         }
14     }
15     if(i==a)
16     {
17         printf("is it prime no:yes");
    
```

Windows PowerShell
 Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```

PS C:\Users\md shahid akhtar\c tutorial courses> cd "c:\Users\md shahid akhtar\c tutorial courses\" ; if ($?) { gcc ass6Q8.c -o ass6Q8 } ; if
}
enter the no 5
is it prime no:yes
PS C:\Users\md shahid akhtar\c tutorial courses>
    
```

```

C ass6Q9.c > main()
1  #include<stdio.h>
2  int main()
3  {
4      int a,b;
5      printf("enter two no");
6      scanf("%d%d",&a,&b);
7      for(int i=1;i<=a*b;i++)
8      {
9          if(i%a==0&&i%b==0)
10         {
11             printf("Lcm of %d and %d is  %d ",a,b,i);
12             break ;
13         }
14     }
15     return 0;
16
17 }
    
```

Windows PowerShell
 Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```

PS C:\Users\md shahid akhtar\c tutorial courses> cd "c:\Users\md shahid akhtar\c tutorial courses\" ; if ($?) { gcc ass6Q9.c -o ass6Q9 } ; if
}
enter two no10
11
Lcm of 10 and 11 is  110
PS C:\Users\md shahid akhtar\c tutorial courses>
    
```



```

C ass6Q10.c > main()
1  #include<stdio.h>
2  int main()
3  {
4      int a,b;
5      printf("enter the no\n");
6      scanf("%d",&a);
7      while(1)
8      {
9          if(a!=0)
10         {
11             b=a%10;
12             printf("%d",b);
13             a=a/10;
14         }
15
16
17     }
    
```

Windows PowerShell
 Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

PS C:\Users\md shahid akhtar\c tutorial courses> cd "c:\Users\md shahid akhtar\c tutorial courses\" ; if (\$?) { gcc ass6Q10.c -o ass6Q10 } ;
 10 }
 enter the no
 98765
 56789