

q1name.c - cs201 - Visual Studi...

q1name.c x q2eo.c q3swap.c q4amstrong.c q5sumdigits.c test.c

```
assignment1 > C q1name.c > main()
1  #include<stdio.h>
2
3  int main() {
4      char name[30];
5      int r;
6      printf("enter your name:");
7      scanf("%s", name);
8      printf("enter your roll number:");
9      scanf("%d", &r);
10     printf(" my name is %s and my roll number is %d",name,r);
11     return 0;
12
13 }
```

Ln 13, Col 2 Spaces: 4 UTF-8 CRLF {} C Win32

Windows PowerShell x + v

Windows PowerShell
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```
PS C:\Users\Tharun> cd C:\Users\Tharun\Desktop\cs201\assignment1
PS C:\Users\Tharun\Desktop\cs201\assignment1> gcc q1name.c
PS C:\Users\Tharun\Desktop\cs201\assignment1> ./a.exe
enter your name:THARUN
enter your roll number:422116
    my name is THARUN and my roll number is 422116
PS C:\Users\Tharun\Desktop\cs201\assignment1>
```

q2eo.c - cs201 - Visual Studio C...

q1name.cq2eo.cq3swap.cq4amstr

assignment1 > C q2eo.c > main()

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

Ln 9, Col 6 Spaces: 4 UTF-8 CRLF {} C Win32

Windows Pc x Windows Pi x Settings

Windows PowerShell

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PS C:\Users\Tharun\Desktop\cs201\assignment1> gcc q2eo.c

PS C:\Users\Tharun\Desktop\cs201\assignment1> ./a.exe

enter the number4

4 is even number

PS C:\Users\Tharun\Desktop\cs201\assignment1> gcc q2eo.c

PS C:\Users\Tharun\Desktop\cs201\assignment1> ./a.exe

enter the number5

5 is odd number

PS C:\Users\Tharun\Desktop\cs201\assignment1> gcc q2eo.c

PS C:\Users\Tharun\Desktop\cs201\assignment1> ./a.exe

enter the number23512437

23512437 is odd number

PS C:\Users\Tharun\Desktop\cs201\assignment1> gcc q2eo.c

PS C:\Users\Tharun\Desktop\cs201\assignment1> ./a.exe

enter the number235486

235486 is even number

PS C:\Users\Tharun\Desktop\cs201\assignment1> |

q3swap.c - cs201 - Visual Studio...

q1name.c q2eo.c q3swap.c x q4amstrong.c q5sui

assignment1 > q3swap.c > main()

```
1 #include<stdio.h>
2
3 int main() {
4     //with temporary variable
5     int a,b,t;
6     printf("enter the number1 a:");
7     scanf("%d" ,&a);
8     printf("enter the number2 b:");
9     scanf("%d" ,&b);
10    t=a;
11    a=b;
12    b=t;
13    printf("new a: %d and b: %d\n\n",a,b);
14
15    //with out temporary varaible
16    int c,d;
17    printf("enter the number1 c:\n");
18    scanf("%d" ,&c);
19    printf("enter the number2 d:\n");
20    scanf("%d" ,&d);
21    c=c+d;
22    d=c-d;
23    c=c-d;
24    printf("new c: %d and d: %d\n",c,d);
25
26    return 0;
27 }
```

Ln 13, Col 36 Spaces: 4 UTF-8 CRLF {} C Win32

Windows PowerShell x + v

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```
PS C:\Users\Tharun> cd C:\Users\Tharun\Desktop\cs201\assignment1
PS C:\Users\Tharun\Desktop\cs201\assignment1> gcc q3swap.c
PS C:\Users\Tharun\Desktop\cs201\assignment1> ./a.exe
enter the number1 a:34
enter the number2 b:55
new a: 55 and b: 34
enter the number1 c:
42
enter the number2 d:
35
new c: 35 and d: 42
PS C:\Users\Tharun\Desktop\cs201\assignment1> gcc q3swap.c
PS C:\Users\Tharun\Desktop\cs201\assignment1> ./a.exe
enter the number1 a:34
enter the number2 b:56
new a: 56 and b: 34

enter the number1 c:
64
enter the number2 d:
67
new c: 67 and d: 64
PS C:\Users\Tharun\Desktop\cs201\assignment1> |
```

```
q4amstrong.c - cs201 - Visual St...
q1name.c q2eo.c q3swap.c q4amstrong.c x q5sumdigits.c test.c hello.cpp
assignment1 > C:\q4amstrong.c> main()
1 #include<stdio.h>
2 #include<math.h>
3
4 int main() {
5     int a,c,d;
6     c=0;
7     printf("enter the number1 a:");
8     scanf("%d",&a);
9     int i;
10    double J;
11    J=a;
12    i=a;
13    while(a>0){
14        d=a%10;
15        a=a/10;
16        c=c+1;
17    }
18    printf("%d,%d,%lf\n",c,i,J);
19    double A,K,C;
20    C=c;
21    while(i>0){
22        K=i%10;
23        i=i/10;
24        A=A+pow(K,C);
25    }
26    printf("%lf\n\n",A);
27    if(A==J){
28        printf("the given number \"a\" is amstrong number\n\n");
29    }
30    else{
31        printf("the given number \"a\" is not amstrong number\n\n");
32    }
33    return 0;
34 }
```

```
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PS C:\Users\Tharun\Desktop\cs201\assignment1> gcc q4amstrong.c
PS C:\Users\Tharun\Desktop\cs201\assignment1> ./a.exe
enter the number1 a:4645
4,4645,4645.000000
2433.000000

the given number "a" is not amstrong number

PS C:\Users\Tharun\Desktop\cs201\assignment1> gcc q4amstrong.c
PS C:\Users\Tharun\Desktop\cs201\assignment1> ./a.exe
enter the number1 a:371
3,371,371.000000
371.000000

the given number "a" is amstrong number

PS C:\Users\Tharun\Desktop\cs201\assignment1> gcc q4amstrong.c
PS C:\Users\Tharun\Desktop\cs201\assignment1> ./a.exe
enter the number1 a:1634
4,1634,1634.000000
1634.000000

the given number "a" is amstrong number

PS C:\Users\Tharun\Desktop\cs201\assignment1> |
```

q5sumdigits.c - cs201 - Visual S...

```
1 #include<stdio.h>
2
3 int main() {
4     int a,b,c,d;
5     b=c=0;
6     printf("enter the number1 a:");
7     scanf("%d",&a);
8     while(a>0){
9         d=a%10;
10        a=a/10;
11        b=b+d;
12        c=c+1;
13    }
14    printf("the no of digits of a: %d and sum of digits of a : %d",c,b);
15
16    return 0;
17 }
```

Ln 17, Col 2 Spaces: 4 UTF-8 CRLF {} C Win32

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```
PS C:\Users\Tharun> cd C:\Users\Tharun\Desktop\cs201\assignment1
PS C:\Users\Tharun\Desktop\cs201\assignment1> gcc q5sumdigits.c
PS C:\Users\Tharun\Desktop\cs201\assignment1> ./a.exe
enter the number1 a:2345
the no of digits of a: 4 and sum of digits of a : 14
PS C:\Users\Tharun\Desktop\cs201\assignment1> gcc q5sumdigits.c
PS C:\Users\Tharun\Desktop\cs201\assignment1> ./a.exe
enter the number1 a:123456789
the no of digits of a: 9 and sum of digits of a : 45
PS C:\Users\Tharun\Desktop\cs201\assignment1> |
```