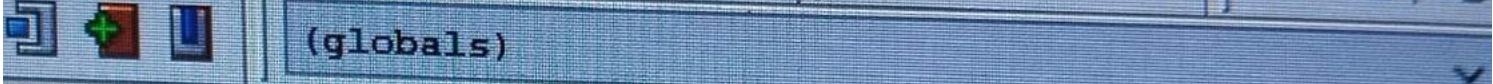


**C, C++ and DSA In Depth****Assignment-4: More on Operators in C Language**

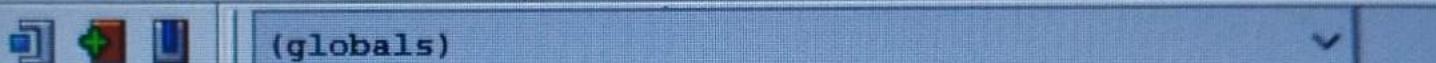
1. Write a program to input a three digit number and display the sum of the digits.
2. Write a program to find ASCII code of the character '+'.
3. Write a program to print size of an int, a float, a char and a double type variable
4. Write a program to make the last digit of a number stored in a variable as zero.  
(Example - if  $x=2345$  then make it  $x=2340$ )
5. Write a program to input a number from the user and also input a digit. Append a digit in the number and print the resulting number. (Example - number=234 and digit=9 then the resulting number is 2349)
6. Assume price of 1 USD is INR 84.23. Write a program to take the amount in INR and convert it into USD.
7. Write a program to take a three digit number from the user and rotate its digits by one position towards the right.
8. What will be the value stored in the variable  $x$  after executing following statement:  
 $x=10>8>4;$
9. What will be the value stored in the variable  $x$  after executing following statement:  
 $x=12>-2;$
10. What will be the value stored in the variable  $x$  after executing following statement:  
 $x=3<0&&5>0;$



assig4.1.cpp assig4.2.cpp assig4.3.cpp assig4.4.cpp assig4.5.cpp assig4.6.c

```
1
2 #include<stdio.h>
3 int main()
4 {
5     int n,sum;
6     printf("Enter any three digit no.");
7     scanf("%d",&n);
8
9     sum=n/100+n/10%10+n%10;
10    printf("Sum of three digit no. %d",sum);
```

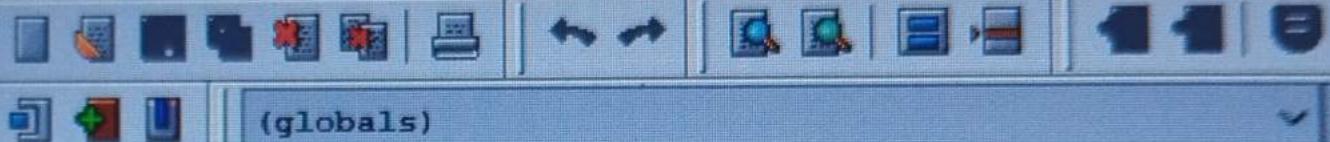
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assig4.1.cpp assig4.2.cpp assig4.3.cpp assig4.4.cpp assig4.5.cpp assig4.6.cpp a

```
1 #include<stdio.h>
2 int main(){
3     char ch='+';
4     printf(" %c ASCII Code is %d",ch,ch);
5 }
```

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(globals)

assig4.1.cpp assig4.2.cpp assig4.3.cpp assig4.4.cpp assig4.5.cpp assig4.6.cpp

```
1 #include<stdio.h>
2 int main(){
3     int x;
4     x=sizeof(char);
5     printf("Size of char in bytes %d\n",x);
6     x=sizeof(int);
7     printf("Size of int in bytes %d\n",x);
8     x=sizeof(float);
9     printf("Size of float in bytes %d\n",x);
10    x=sizeof(double);
11    printf("Size of double in bytes %d",x);
12 }
13 }
```

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assig4.1.cpp assig4.2.cpp assig4.3.cpp assig4.4.cpp assig4.5.cpp assig4.6.cpp ass

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     printf("Enter any no.");
5     scanf("%d",&n);
6     n=(n-n%10);
7     printf("Given number make the last digit zero %d",n);
8 }
```

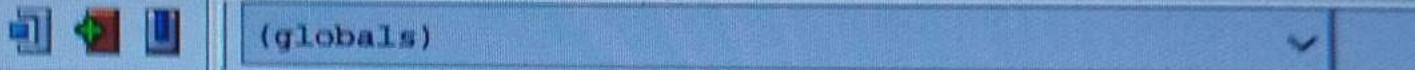
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(globals)

assig4.1.cpp assig4.2.cpp assig4.3.cpp assig4.4.cpp assig4.5.cpp assig4.6.cpp assi

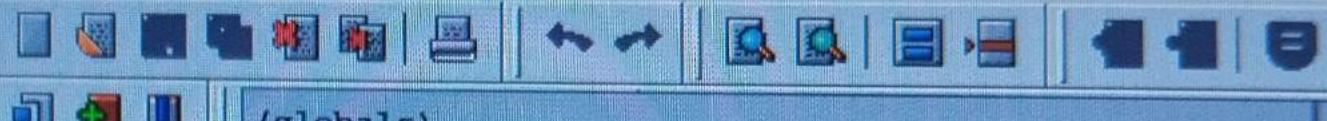
```
1 #include<stdio.h>
2 int main(){
3     int n,digit;
4     printf("Enter any no.");
5     scanf("%d",&n);
6     printf("Enter any one digit ");
7     scanf("%d",&digit);
8     n=n*10+digit;
9     printf("A digit is append for given no. %d",n);
10 }
```



assig4.1.cpp assig4.2.cpp assig4.3.cpp assig4.4.cpp assig4.5.cpp assig4.6.cpp

```
1 #include<stdio.h>
2 int main(){
3     float x,d;
4     printf("Enter the in INR ");
5     scanf("%f",&x);
6     d=x/83.23;
7     printf("USD is %0.2f$ ",d);
8 }
```

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(globals)

assig4.1.cpp assig4.2.cpp assig4.3.cpp assig4.4.cpp assig4.5.cpp assig4.6.cpp

```
1 #include<stdio.h>
2 int main(){
3     int x,rot;
4     printf("Enter any no. ");
5     scanf("%d",&x);
6     rot=x%10*100+x/10;
7     printf("Rotate its digit %d",rot);
8 }
```

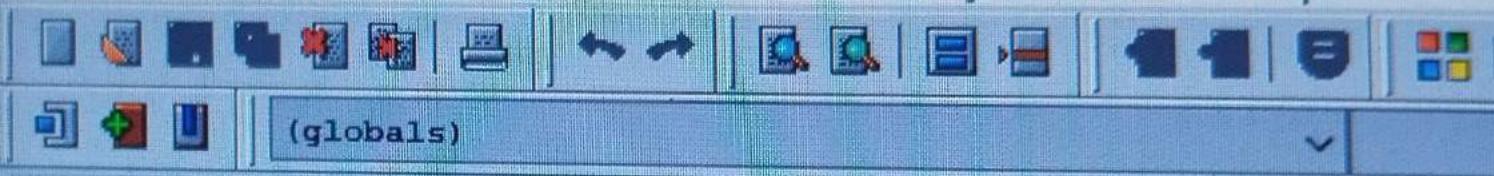
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(globals)

```
assig4.1.cpp assig4.2.cpp assig4.3.cpp assig4.4.cpp assig4.5.cpp assig4.6.cpp assi
```

```
1 #include<stdio.h>
2 int main(){
3     int x;
4     x=10>8>2;
5     printf("After executing statement x is stored: %d",x);
6 }
```

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(globals)

assig4.1.cpp assig4.2.cpp assig4.3.cpp assig4.4.cpp assig4.5.cpp assig4.6.cpp assig

```
1 #include<stdio.h>
2 int main(){
3     int x;
4     x=!2>2;
5     printf("After executing statement x is stored: %d",x);
6 }
```

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(globals)

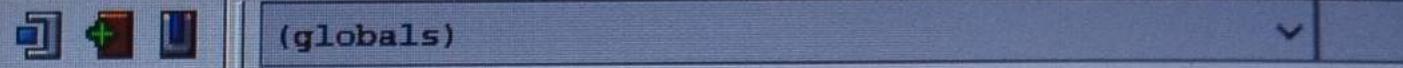
assig4.1.cpp assig4.2.cpp assig4.3.cpp assig4.4.cpp assig4.5.cpp assig4.6.cpp assig4.7.cpp

```
1 #include<stdio.h>
2 int main(){
3     int x;
4     x=3<0&&5>0;
5     printf("After executing statement stored value in x %d:",x);
6 }
```

### **Assignment-5: Decision Control Statements**

1. Write a program to check whether a given number is positive or non positive.
2. Write a program to check whether a given number is divisible by 5 or not
3. Write a program to check whether a given number is an even number or an odd number.
4. Write a program to check whether a given number is an even number or an odd number without using % operator.
5. Write a program to check whether the given number is even or odd using a bitwise operator.
6. Write a program to check whether a given number is a three digit number or not.
7. Write a program to print greater between two numbers. Print one number if both are the same.
8. Write a program to check whether roots of a given quadratic equation are real & distinct, real & equal or imaginary roots
9. Write a program to check whether a given year is a leap year or not.
10. Write a program to find the greatest among three given numbers. Print number once if the greatest number appears two or three times.

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(globals)

assig5.1.cpp assig5.2.cpp assig5.3.cpp assig5.4.cpp assig5.5.cpp assig5.6.cpp as

```
1 #include<stdio.h>
2 int main(){
3     /*int n;
4     printf("Enter any no.");
5     scanf("%d",&n);
6     if(n>0)
7         printf("Positive number %d",n);
8     else
9         printf("Non positive number %d",n);
10
11    */
12    int x=10;
13    ++x;
14    printf("%d",x);
15 }
```

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assig5.1.cpp assig5.2.cpp assig5.3.cpp assig5.4.cpp assig5.5.cpp assig5.6.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     printf("Enter any no. ");
5     scanf("%d",&n);
6     if(n%5==0){
7         printf("%d is divisible by 5 ",n);
8     }
9     else
10    {
11        printf("%d is not divisible by 5 ",n);
12    }
13 }
14
```



(globals)

assig5.1.cpp assig5.2.cpp assig5.3.cpp assig5.4.cpp assig5.5.cpp assig5.6.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     printf("Enter any no. ");
5     scanf("%d",&n);
6     if(n%2==0)
7         printf("%d is even no.",n);
8     else
9         printf("%d is odd no.",n);
10 }
```

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(globals)

assig5.1.cpp assig5.2.cpp assig5.3.cpp assig5.4.cpp assig5.5.cpp assig5.6.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     printf("Enter any no.");
5     scanf("%d",&n);
6     if(n/2*2==n)
7         printf("%d is even no.",n);
8     else
9         printf("%d is odd no.",n);
10 }
11 }
```

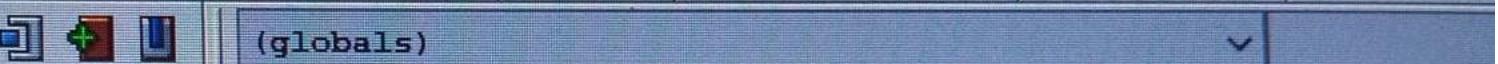
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(globals)

assig5.1.cpp assig5.2.cpp assig5.3.cpp assig5.4.cpp assig5.5.cpp assig5.6.cpp assig5.7.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     printf("Enter any no. ");
5     scanf("%d" ,&n);
6     if(n&1==1)
7         printf("%d is odd no. ",n);
8     else
9         printf("%d is even no. ",n);
10 }
```

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assig5.1.cpp assig5.2.cpp assig5.3.cpp assig5.4.cpp assig5.5.cpp assig5.6.cpp assig5.7.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     printf("Enter any no.");
5     scanf("%d",&n);
6     if(n>=100&&n<=999)
7         printf("%d is three digit no.",n);
8     else
9         printf("%d is not three digit no.",n);
10
11 }
```

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(globals)

assig5.1.cpp assig5.2.cpp assig5.3.cpp assig5.4.cpp assig5.5.cpp assig5.6.cpp assig5

```
1 #include<stdio.h>
2 int main(){
3     int a,b;
4     printf("Enter the first no.");
5     scanf("%d",&a);
6     printf("Enter the second no.");
7     scanf("%d",&b);
8     printf("\n");
9     if(a>b)
10        printf("%d is largest.",a);
11    else
12        printf("%d is largest.",b);
13 }
```



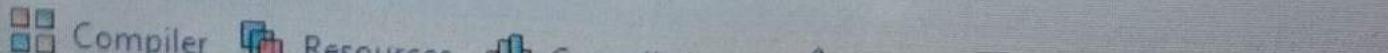
assig5.1.cpp assig5.2.cpp assig5.3.cpp assig5.4.cpp assig5.5.cpp assig5.6.cpp assig5.7.cpp

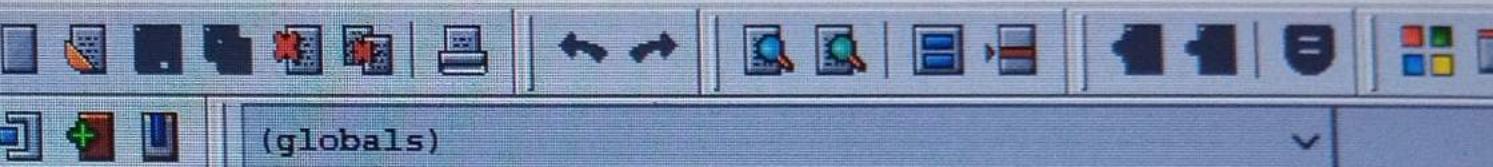
```
1 #include<stdio.h>
2 #include<math.h>
3 int main(){
4     int a,b,c;
5     printf("Enter the value of a ");
6     scanf("%d",&a);
7     printf("Enter the value of b ");
8     scanf("%d",&b);
9     printf("Enter the value of c ");
10    scanf("%d",&c);
11    printf("\n");
12    float r1,r2,d;
13    if(a==0){
14        printf("Quadratic equation is not possible");
15    }
16    else{
17        d=b*b-4*a*c;
18        if(d>0){
19            r1=(-b+sqrt(d))/2*a;
20            r2=(-b-sqrt(d))/2*a;
21            printf("Roots are r1=%0.2f and r2=%0.2f",r1,r2);
22        }
23        else if(d==0){
24            r1=-b/2*a;
25            r2=-b/2*a;
26            printf("Roots are r1=%0.2f and r2=%0.2f",r1,r2);
27        }
28        else
29            printf("Roots are imaginary");
30    }
31 }
```



assig5.1.cpp assig5.2.cpp assig5.3.cpp assig5.4.cpp assig5.5.cpp assig5.6.cpp assig5.7.cpp

```
1 #include<stdio.h>
2 int main(){
3     int year;
4     printf("Enter the Year ");
5     scanf("%d",&year);
6     if(year%100==0)
7         if(year%400==0)
8             printf("%d is leap Year.",year);
9         else
10            printf("%d is not leap Year.",year);
11
12     else if(year%4==0)
13         printf("%d is leap year.",year);
14     else
15         printf("%d is not leap year.",year);
16 }
```





```
1 #include<stdio.h>
2 int main(){
3     int a,b,c;
4     printf("Enter the value of a:");
5     scanf("%d",&a);
6     printf("Enter the value of b:");
7     scanf("%d",&b);
8     printf("Enter the value of c:");
9     scanf("%d",&c);
10    if(a>b&&a>c)
11        printf("%d is greatest ",a);
12    else if(b>c)
13        printf("%d is greatest ",b);
14    else
15        printf("%d is greatest ",c);
16
17
18 }
```

## Assignment-6: More on Decision Control Statements

1. Write a program to check whether a given number is a three digit number or not.
2. Write a program which takes the cost price and selling price of a product from the user. Now calculate and print profit or loss percentage.
3. Write a program to take marks of 5 subjects from the user. Assume marks are given out of 100 and passing marks is 33. Now display whether the candidate passed the examination or failed.
4. Write a program to check whether a given alphabet is in uppercase or lowercase.
5. Write a program to check whether a given number is divisible by 3 and divisible by 2.
6. Write a program to check whether a given number is divisible by 7 or divisible by 3.
7. Write a program to check whether a given number is positive, negative or zero.
8. Write a program to check whether a given character is an alphabet (uppercase), an alphabet (lower case), a digit or a special character.
9. Write a program which takes the length of the sides of a triangle as an input. Display whether the triangle is valid or not.
10. Write a program which takes the month number as an input and display number of days in that month.

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(globals)

assig6.1.cpp assig6.2.cpp assig6.3.cpp assig6.4.cpp assig6.5.cpp assig6.6.cpp assig6.7.cpp assig6.8.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     printf("Enter any no.");
5     scanf("%d",&n);
6     if(n>=100&&n<=999)
7         printf("%d is a three digit no.",n);
8     else
9         printf("%d is not a three digit no.",n);
10 }
```

I

Compiler Resources Compile Log Debug Find Results

Line: 1 Col: 1 Sel: 0 Lines: 10 Length: 202 Insert Done parsing in 0.0

(globals)

assig6.1.cpp assig6.2.cpp assig6.3.cpp assig6.4.cpp assig6.5.cpp assig6.6.cpp assig6.7.cpp assig6.8..

```
1 #include<stdio.h>
2 int main(){
3     float cp,sp;
4     float profit,loss;
5     printf("Enter cost price.");
6     scanf("%f",&cp);
7     printf("Enter selling price.");
8     scanf("%f",&sp);
9     if(sp-cp>=0){
10         profit=(sp-cp)/cp*100;
11         printf("Profit is %.2f",profit);
12     }
13     else {
14         loss=(cp-sp)/cp*100;
15         printf("Loss is %.2f",loss);
16     }
17 }
18
19 }
20
```

Compiler Resources Compile Log Debug Find Results

Line: 1 Col: 1 Sel: 0 Lines: 20 Length: 334 Insert Done parsing.in

The screenshot shows a software environment with a toolbar at the top containing numerous icons. Below the toolbar is a tab bar labeled '(globals)' which includes tabs for 'assig6.1.cpp', 'assig6.2.cpp', 'assig6.3.cpp', 'assig6.4.cpp', 'assig6.5.cpp', 'assig6.6.cpp' (which is currently selected), 'assig6.7.cpp', 'assig6.8.cpp', and 'assig6.9.cpp'. The main area is a code editor displaying the following C++ code:

```
1 #include<stdio.h>
2 int main(){
3     float s1,s2,s3,s4,s5;
4     float per;
5     printf("Enter the 5 subject No.");
6     scanf("%f %f %f %f %f",&s1,&s2,&s3,&s4,&s5);
7     per=(s1+s2+s3+s4+s5)/5;
8     if(per>=33)
9         printf("Candidate passed the examination %.2f%%",per);
10    else
11        printf("candidate failed the examination %.2f%%",per);
12
13
14
15 }
16
```

At the bottom of the interface, there are several tabs: 'Compiler', 'Resources', 'Compile Log', 'Debug', and 'Find Results'. Below these tabs, status information is displayed: 'Line 1', 'Col 1', 'Sel 0', 'Lines: 16', 'Length: 331', 'Insert', and 'Done parsing in 0.016'.

File Edit Search View Project Tools

(globals)

assig6.1.cpp assig6.2.cpp assig6.3.cpp assig6.4.cpp assig6.5.cpp assig6.6.cpp assig6.7.cpp assig6.8.cpp

```
1 #include<stdio.h>
2 int main(){
3     char x;
4     printf("Enter Alphabet: ");
5     scanf("%c",&x);
6     if(x>='a' && x<='z')
7         printf("Alphabet is Lowercase %c ",x);
8     else if (x>='A' && x<='Z')
9         printf("Alphabet is Uppercase %c ",x);
10    else
11        printf("%c is Not alphabet.",x);
12 }
```

Compiler Resources Compile Log Debug Find Results

Line: 1 Col: 1 Sel: 0 Lines: 12 Length: 274 Insert Done parsing in 0.0

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

assig6.1.cpp assig6.2.cpp assig6.3.cpp assig6.4.cpp assig6.5.cpp assig6.6.cpp assig6.7.cpp assig6.8.cpp assig

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     printf("Enter the any no.");
5     scanf("%d",&n);
6     if(n%3==0 && n%2==0)
7         printf("%d is divisible by 3 and 2 ",n);
8     else
9         printf("%d is Not divisible by 3 and 2 ",n);
10
11 }
```

Compiler Resources Compile Log Debug Find Results

Line: 1 Col: 1 Sel: 0 Lines: 11 Length: 218 Insert Done parsing in 0.016s

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(globals)

assig6.1.cpp assig6.2.cpp assig6.3.cpp assig6.4.cpp assig6.5.cpp assig6.6.cpp assig6.7.cpp assig6.8.cpp ass

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     printf("Enter any no.");
5     scanf("%d",&n);
6     printf("\n");
7     if(n%7==0 || n%3==0)
8         printf("%d is divisible by 7 or divisible by 3",n);
9     else
10        printf("%d is not divisible by 7 or not divisible by 3",n);
11 }
```

C:\Users\Sohan\Documents\C,C++

Compiler Resources Compile Log Debug Find Results

Line: 1 Col: 1 Sel: 0 Lines: 11 Length: 256 Insert Done parsing in 0.0

C:\Users\Sohan\Documents\C,C++,DSA Assignment\ C programming assignment\assignment6\assig6.7.cpp - Dev-C++

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

assig6.1.cpp assig6.2.cpp assig6.3.cpp assig6.4.cpp assig6.5.cpp assig6.6.cpp assig6.7.cpp assig6.8.cpp assig6.9.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     printf("Enter any no.");
5     scanf("%d", &n);
6     if(n>0)
7         printf("%d is a positive no.", n);
8     else if(n<0)
9         printf("%d is a negative no.", n);
10    else
11        printf("%d is a zero", n);
12 }
```

C:\Users\Sohan\Documents\C,C++,DSA Assignment\ C programming assignment\assignment6\assig6.7.cpp

Compiler Resources Compile Log Debug Find Results

Line: 1 Col: 1 Sel: 0 Lines: 12 Length: 227 Insert Done parsing in 0.016 second

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(globals)

assig6.1.cpp assig6.2.cpp assig6.3.cpp assig6.4.cpp assig6.5.cpp assig6.6.cpp assig6.7.cpp assig6.8.cpp assig6.9.cpp assig6.10.cpp

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TDM-G

```
1 #include<stdio.h>
2 int main(){
3     char ch;
4     printf("Enter any character: ");
5     scanf("%c",&ch);
6     printf("\n");
7     if(ch>=65 && ch<=90)
8         printf("%c is an alphabet (uppercase)",ch);
9     else if(ch>=97 && ch<=122)
10        printf("%c is alphabet(lowercase)",ch);
11    else if(ch>=32 && ch<=47 || ch>=58 && ch<=64 || ch>=91 && ch<=96 || ch>=123 && ch<=126)
12        printf("%c is special character",ch);
13    else if(ch>=48 && ch<=57)
14        printf("%c is digit",ch);
15    else
16        printf("%c is other character",ch);
17 }
18
```

Compiler Resources Compile Log Debug Find Results

Line: 1 Col: 1 Sel: 0 Lines: 18 Length: 505 Insert Done parsing in 0.016 seconds

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(globals)

assig6.1.cpp assig6.2.cpp assig6.3.cpp assig6.4.cpp assig6.5.cpp assig6.6.cpp assig6.7.cpp assig6.8.cpp assig6.9.cpp ass

```
1 #include<stdio.h>
2 int main(){
3     int a,b,c;
4     printf("Enter the length of triangle side a: ");
5     scanf("%d",&a);
6     printf("Enter the length of triangle side b: ");
7     scanf("%d",&b);
8     printf("Enter the length of triangle side c: ");
9     scanf("%d",&c);
10    if(a+b>c && b+c>a && c+a>b)
11        printf("Triangle is Valid");
12    else
13        printf("Triangle is not valid");
14 }
```

C:\Users\Sohan

Compiler Resources Compile Log Debug Find Results

Line: 1 Col: 1 Sel: 0 Lines: 14 Length: 359 Insert Done parsing in 0.016 seconds

```
(globals)
assig6.1.cpp assig6.2.cpp assig6.3.cpp assig6.4.cpp assig6.5.cpp assig6.6.cpp assig6.7.cpp assig6.8.cpp assig6.9.cpp

1 #include<stdio.h>
2 int main(){
3     int m;
4     printf("Enter the month no.");
5     scanf("%d",&m);
6     printf("\n");
7     if(m==1 || m==3 || m==5 || m==7 || m==8 || m==10 || m==12)
8         printf(" In month total days is 31");
9     else if(m==4 || m==6 || m==9 || m==11)
10        printf("In month total days is 30");
11    else if (m==2)
12        printf("In month total days is 28 or 29");
13    else
14        printf("Invalid month number");
15 }
```

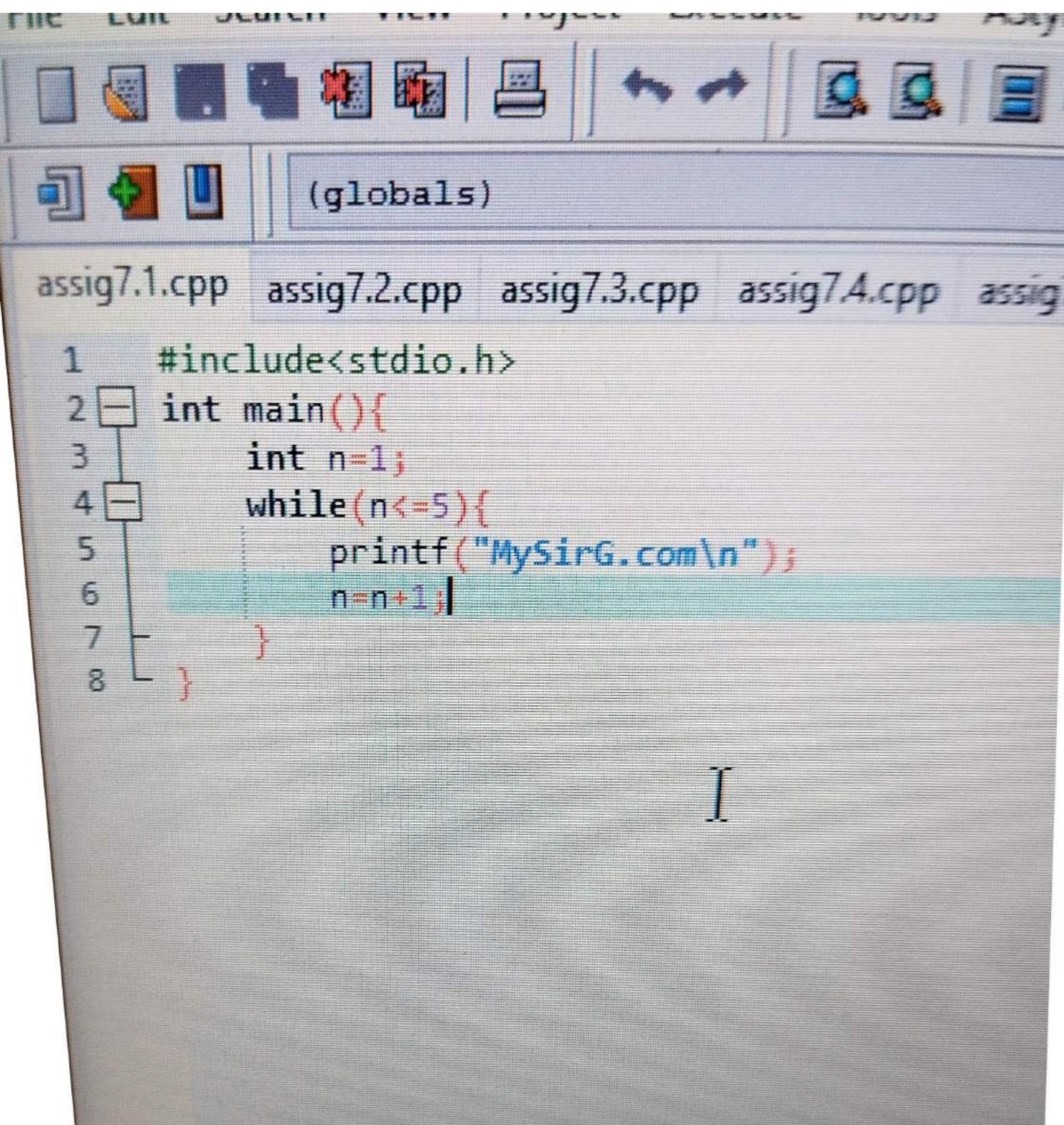
Compiler Resources Compile Log Debug Find Results

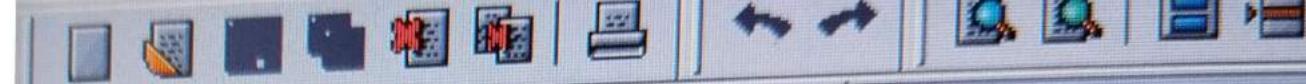
Line: 1 Col: 1 Sel: 0 Lines: 15 Length: 402 Insert Done parsing in 0.016 second

## C, C++ and DSA in Depth

### Assignment-7: Iterative Control Statements

1. Write a program to print MySirG 5 times on the screen
2. Write a program to print the first 10 natural numbers.
3. Write a program to print the first 10 natural numbers in reverse order
4. Write a program to print the first 10 odd natural numbers
5. Write a program to print the first 10 odd natural numbers in reverse order.
6. Write a program to print the first 10 even natural numbers
7. Write a program to print the first 10 even natural numbers in reverse order
8. Write a program to print squares of the first 10 natural numbers
9. Write a program to print cubes of the first 10 natural numbers
10. Write a program to print a table of 5.





(globals)

assig7.1.cpp assig7.2.cpp assig7.3.cpp assig7.4.cpp assig7.5

```
1 #include<stdio.h>
2 int main(){
3     int n=1;
4     while(n<=10){
5         printf("%d\n",n);
6         n++;
7     }
8 }
```



(globals)

assig7.1.cpp assig7.2.cpp assig7.3.cpp assig7.4.cpp assig7.5.c

```
1 #include<stdio.h>
2 int main(){
3     int n=10;
4     while(n>=1){
5         printf("%d\n",n);
6         n--;
7     }
8 }
```

File Edit Search View Project Execute Tools AStyle W

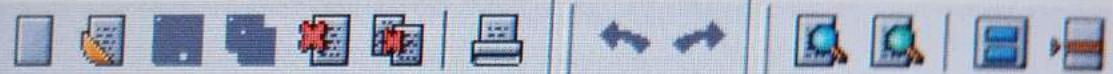


(globals)

assig7.1.cpp assig7.2.cpp assig7.3.cpp assig7.4.cpp assig7.5.c

```
1 #include<stdio.h>
2 int main(){
3     int n=1;
4     while(n<=20){
5         printf("%d\n",n);
6         n=n+2;
7     }
8 }
```

File Edit Search View Project Execute Tools AStyle Wi



(globals)

assig7.1.cpp assig7.2.cpp assig7.3.cpp assig7.4.cpp assig7.5.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n=20;
4     while(n>=1){
5         printf("%d\n",n-1);
6         n=n-2;
7     }
8 }
```

File Edit Search View Project Execute Tools AST



(globals)

assig7.1.cpp assig7.2.cpp assig7.3.cpp assig7.4.cpp ass

```
1 #include<stdio.h>
2 int main(){
3     int n=1;
4     while(n<=20){
5         printf("%d\n",n);
6         n=n+2;
7     }
8 }
```

File Edit Search View Project Execute Tools AStyle Window



(globals)

assig7.1.cpp assig7.2.cpp assig7.3.cpp assig7.4.cpp assig7.5.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n=20;
4     while(n>=1){
5         printf("%d\n",n);
6         n=n-2;
7     }
8 }
```

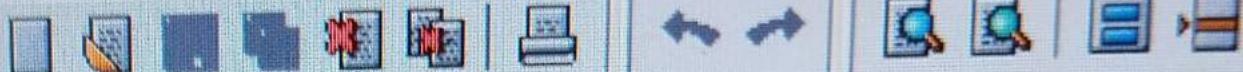


assig7.1.cpp assig7.2.cpp assig7.3.cpp assig7.4.cpp assig7.5.cpp assig

```
1 #include<stdio.h>
2 int main(){
3     int n=1;
4     while(n<=10){
5         printf("%d\n",n*n);
6         n=n+1;
7     }
8 }
9 }
```

C:\Users\sonali\Documents\Assig7

File Edit Search View Project Execute Tools AStyle Win

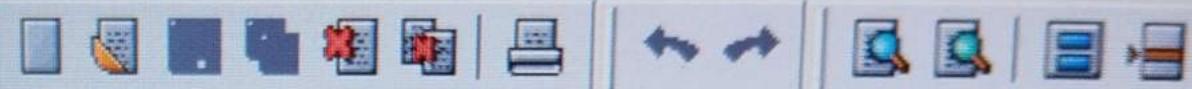


(globals)

assig7.1.cpp assig7.2.cpp assig7.3.cpp assig7.4.cpp assig7.5.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n=1;
4     while(n<=10){
5         printf("%d\n",n*n*n);
6         n++;
7     }
8 }
9
10 }
```

File Edit Search View Project Execute Tools AStyle



(globals)

assig7.1.cpp assig7.2.cpp assig7.3.cpp assig7.4.cpp assig7.5.

```
1 #include<stdio.h>
2 int main(){
3     int n=1;
4     while(n<=10){
5         printf("5 X %d =%d\n",n,n*5);
6         n++;
7     }
8 }
```

### Assignment-8: More on Iterative Control Statements

1. Write a program to print MySirG N times on the screen
2. Write a program to print the first N natural numbers.
3. Write a program to print the first N natural numbers in reverse order
4. Write a program to print the first N odd natural numbers
5. Write a program to print the first N odd natural numbers in reverse order.
6. Write a program to print the first N even natural numbers
7. Write a program to print the first N even natural numbers in reverse order
8. Write a program to print squares of the first N natural numbers
9. Write a program to print cubes of the first N natural numbers
10. Write a program to print a table of N.

The screenshot shows a Windows-based integrated development environment (IDE) for C/C++ development. The top menu bar includes File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, and Help. Below the menu is a toolbar with icons for file operations like Open, Save, Print, and a search function. The title bar indicates the current project is '(globals)'. The main window displays a C/C++ code editor with the following content:

```
1 #include<stdio.h>
2 int main(){
3     int n,i=1;
4     printf("Enter the no. of terms ");
5     scanf("%d",&n);
6     while(i<=n){
7         printf("%d X %d = %d\n",n,i,i*n);
8         i++;
9     }
10 }
```

The screenshot shows a Dev-C++ IDE interface. The menu bar includes File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, and Help. The toolbar contains various icons for file operations like Open, Save, Print, and Build. The title bar displays the path C:\Users\Sohan\Documents\C,C++,DSA Assignement\Assignment C programming assignment\assignment8\assig8.2.cpp - Dev-C++ 5.11 and the version TDM-GCC 4.7.2. The editor window shows a C program with line numbers 1 through 10. The code prints integers from 1 to n using a while loop.

```
#include<stdio.h>
int main(){
    int i=1,n;
    printf("Enter the no of terms: ");
    scanf("%d",&n);
    while(i<=n){
        printf("%d\n",i);
        i++;
    }
}
```

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

assig8.1.cpp assig8.2.cpp assig8.3.cpp assig8.4.cpp assig8.5.cpp assig8.6.cpp assig8.7.cpp assig8.8.cpp assig8.9.cpp assig8.10.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n,i=1,j=1;
4     printf("Enter the no. of terms: ");
5     scanf("%d",&n);
6     while(i<=n*2){
7         printf("%d odd no is %d\n",j,i);
8         i=i+2;
9         j++;
10    }
11 }
```

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

assig8.1.cpp assig8.2.cpp assig8.3.cpp assig8.4.cpp assig8.5.cpp assig8.6.cpp assig8.7.cpp assig8.8.cpp assig8.9.cpp assig8.10.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n,i=1;
4     printf("Enter the no. of terms ");
5     scanf("%d",&n);
6     while(i<=n*2){
7         printf("%d\n",i);
8         i=i+2;
9     }
10 }
11 }
```

The screenshot shows a software interface for editing C/C++ code. The title bar at the top reads '(globals)'. Below the title bar, there is a horizontal tab bar with several tabs, the second one from the left is highlighted in light blue and contains the text 'assig8.4.cpp'. The main workspace displays the following C code:

```
1 #include<stdio.h>
2 int main(){
3     int n,i=1;
4     printf("Enter the no. of terms ");
5     scanf("%d",&n);
6     while(i<=n*2){
7         printf("%d\n",i);
8         i=i+2;
9     }
10    }
11 }
```

The code is a simple program that prompts the user for the number of terms, reads it into variable `n`, and then prints every second integer starting from 1 up to `n*2`. The code uses standard C input-output functions like `printf` and `scanf`.

(globals)

assig8.1.cpp assig8.2.cpp assig8.3.cpp assig8.4.cpp assig8.5.cpp assig8.6.cpp assig8.7.cpp assig8.8.cpp assig8.9.cpp assig8.10.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     printf("Enter the no. of terms ");
5     scanf("%d",&n);
6     while(1<=n){
7         printf("%d\n",n*2-1);
8         n--;
9     }
10    }
11
12
```

(globals)

assig8.1.cpp assig8.2.cpp assig8.3.cpp assig8.4.cpp assig8.5.cpp assig8.6.cpp assig8.7.cpp assig8.8.cpp assig8.9.cpp assig8.10.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n,i=2;
4     printf("Enter the no. of terms ");
5     scanf("%d",&n);
6     while(i<=n*2){
7         printf("%d\n",i);
8         i+=2;
9     }
10 }
```

Compiler Resources Compile Log Debug Find Results

Line: 1 Col: 1 Col: 0 Lines: 10

The screenshot shows a C/C++ IDE interface. The title bar displays '(globals)'. The tab bar at the top includes files: assig8.1.cpp, assig8.2.cpp, assig8.3.cpp, assig8.4.cpp, assig8.5.cpp, assig8.6.cpp, assig8.7.cpp (selected), assig8.8.cpp, assig8.9.cpp, and assig8.10.cpp. A tooltip above the tab bar indicates the file path: C:\Users\Sohan\Documents\{C,C++,DSA Assignment}\C programming assignment\assig8.7.cpp. The main editor area contains the following C code:

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     printf("Enter the no of terms ");
5     scanf("%d",&n);
6     while(1<=n){
7         printf("%d\n",n*n);
8         n--;
9     }
10 }
11 }
```

Below the editor, there are several tabs: Compiler, Resources, Compile Log, Debug, and Find Results.

(globals)

assig8.1.cpp assig8.2.cpp assig8.3.cpp assig8.4.cpp assig8.5.cpp assig8.6.cpp assig8.7.cpp assig8.8.cpp assig8.9.cpp assig8.10.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n,i=1;
4     printf("Enter the no. of terms ");
5     scanf("%d",&n);
6     while(i<=n){
7         printf("%d\n",i*i);
8         i++;
9     }
10 }
```

Compiler Resources Compile Log Debug Find Results

Line: 1 Col: 1 Sel: 0 Lines: 10 Length: 153 Insert Done parsing in 0.016 seconds

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Debug

(globals)

assig8.1.cpp assig8.2.cpp assig8.3.cpp assig8.4.cpp assig8.5.cpp assig8.6.cpp assig8.7.cpp assig8.8.cpp assig8.9.cpp assig8.10.cpp

C:\Users\Sohan\Documents\C,C++,DSA Assignement\C programming assig8.9.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n,i=1;
4     printf("Enter the no. of terms ");
5     scanf("%d",&n);
6     while(i<=n){
7         printf("%d\n",i*i*i);
8         i++;
9     }
10 }
11 }
```

Compiler Resources Compile Log Debug Find Results

File Edit Search View Project Execute Tools AStyle Window Help

The screenshot shows a C/C++ IDE interface. The menu bar includes File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, and Help. The toolbar contains various icons for file operations like Open, Save, Print, and Build. The title bar indicates the project name is "TDM-GCC 4.9.2 64-bit Debug". The current file is "assig8.1.cpp". The code editor displays the following C code:

```
1 #include<stdio.h>
2 int main(){
3     int n,i=1;
4     printf("Enter the no. of terms ");
5     scanf("%d",&n);
6     while(i<=n){
7         printf("%d x %d = %d\n",n,i,i*n);
8         i++;
9     }
10 }
```

The status bar at the bottom shows statistics: Lines: 10, Code: 1, Comments: 0, Lines: 10, Length: 167, Lines: 10, Length: 167, Lines: 10, Length: 167.