

# ASSIGNMENT-3

SUBJECT-CSL2601



2nd  
**SEMESTER**

Write a program  
for following  
questions

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1) WAP in C to find the area and perimeter of a circle

```
# include <stdio.h>
```

```
int main()
```

```
{
```

```
float r, peri, area;
```

```
printf ("Enter the value of radius : ");
```

```
scanf ("%f", &r);
```

```
peri = 2 * 3.14 * r;
```

```
area = 3.14 * r * r;
```

```
printf ("The value of perimeter is %f \n", peri);
```

```
The value of Area is %f", area);
```

```
return 0;
```

```
}
```

ci.c swap.c swap1.c circ.c

```
1 #include<stdio.h>
2 int main()
3 {
4     float r,peri,area;
5     printf("Enter the value of radius : ");
6     scanf("%f",&r);
7     peri=2*3.14*r;
8     area=3.14*r*r;
9     printf("The value of Perimeter is %f \n The value of Area is %f",peri,area);
10    return 0;
11 }
```

C:\Users\optim\_000\Desktop\csem2\circ.c

```
Enter the value of radius : 7
The value of Perimeter is 43.959999
The value of Area is 153.860001
Process exited after 8.607 seconds with return value 0
Press any key to continue . . .
```

2. WAP in C to convert given temperature from Celsius to fahrenheit.

```
# include <stdio.h>  
int main () {
```

```
float c, f;
```

```
printf ("Enter the value of temperature in celsius : ");  
scanf ("%f", &c);
```

```
f = (c * 1.8) + 32;
```

```
printf ("Enter the");
```

```
printf ("The value of temperature in fahrenheit is %f", f);
```

```
return 0;
```

```
}
```

The image shows a Windows desktop environment. On the left, there is a code editor window titled "temp.c" which contains C code for converting Celsius to Fahrenheit. On the right, there is a terminal window titled "C:\Users\optim\_000\Desktop\csem2\temp.exe" showing the program's output.

**Code Editor (temp.c):**

```
1 #include<stdio.h>
2 int main()
3 {
4     float c,f;
5     printf("Enter the value of temperature in celcius : ");
6     scanf("%f",&c);
7     f=(c*1.8)+32;
8     printf("The value of temperature in Fahrenheit is %f",f);
9     return 0;
10 }
```

**Terminal Output:**

```
C:\Users\optim_000\Desktop\csem2\temp.exe
Enter the value of temperature in celcius : 37.5
The value of temperature in Fahrenheit is 99.500000
Process exited after 7.277 seconds with return value 0
Press any key to continue . . .
```

3. WAP in C to convert given distance b/w two cities  
in km to meter, centimeter and inches

```
# include < stdio.h >
```

```
int main ()
```

```
{
```

```
float k, m, c, i;
```

```
printf ("Enter the value in kilometers : ");
```

```
scanf ("%f", &k);
```

```
m = k * 1000;
```

```
c = m * 100;
```

```
i = c / 2.54;
```

```
printf ("The value in meters is %f\n", m);
```

```
printf ("The value in centimeters is %f\n", c);
```

```
printf ("The value in inches is %f\n", i);
```

```
return 0;
```

```
}
```

The image shows a Windows desktop environment. On the left is a code editor window titled "conv.c" containing C code. On the right is a terminal window titled "C:\Users\optim\_000\Desktop\csem2\conv.exe" showing the program's output.

**Code Editor (conv.c):**

```
1 #include<stdio.h>
2 int main()
3 {
4     float k,m,c,i;
5     printf("Enter the value    in kilometers : ");
6     scanf("%f",&k);
7     m=k*1000;
8     c=m*100;
9     i=c/2.54;
10    printf("The value in meters is %f\n",m);
11    printf("The value in centimeters is %f\n",c);
12    printf("The value in inches is %f\n",i);
13    return 0;
14 }
```

**Terminal Output:**

```
C:\Users\optim_000\Desktop\csem2\conv.exe
Enter the value    in kilometers : 4
The value in meters is 4000.000000
The value in centimeters is 400000.000000
The value in inches is 157480.312500
-----
Process exited after 2.825 seconds with return value 0
Press any key to continue . . .
```

4. WAP in C to find given number is even or odd.

```
#include <stdio.h>
```

```
int main () {
```

```
    int num;
```

```
    printf ("Enter an integer : ");
```

```
    scanf ("%d", &num);
```

```
    if (num % 2 == 0)
```

```
        printf ("%d is even.", num);
```

```
    else
```

```
        printf ("%d is odd.", num);
```

```
    return 0;
```

```
}
```

12312.cpp

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

```
C:\Users\mihir\Desktop\Assignment\CSL\Ass_4\12312.exe
Enter an integer: 53
53 is odd.

Process exited after 5.462 seconds with return value 0
Press any key to continue . . .
```

5. Write a program in C to find the greatest among two numbers.

```
# include <stdio.h>
```

```
int main ()
```

```
{
```

```
int num1, num2;
```

```
printf("Enter two numbers:");
```

```
scanf("%d %d", &num1, &num2);
```

```
if (num1 > num2)
```

```
{
```

```
    printf("%d is greatest, num1);
```

```
} else if (num2 > num1)
```

```
{
```

```
    printf("%d is greatest, num2);
```

```
}
```

```
else
```

```
{
```

```
    printf("%d and %d are equal", num1, num2);
```

```
}
```

```
return 0;
```

```
}
```

12312.cpp

```
1 #include <stdio.h>
2 int main(void)
3 {
4     int num1,num2;
5     printf("Enter two numbers:");
6     scanf("%d %d",&num1,&num2);
7     if(num1>num2)
8     {
9         printf("%d is greatest",num1);
10    }
11   else if(num2>num1)
12   {
13       printf("%d is greatest",num2);
14   }
15   else
16   {
17       printf("%d and %d are equal",num1,num2);
18   }
19   return 0;
20 }
```

```
C:\Users\mihir\Desktop\Assignment\CSL\Ass_4\12312.exe
Enter two numbers:12 26
26 is greatest
-----
Process exited after 3.899 seconds with return value 0
Press any key to continue . . .
```

#include <iostream.h>  
Q6. WAP in C to find greatest among 3 numbers using  
of -else and conditional operators.

(using conditional operators)

# include <stdio.h>

int main () {

int a, b, c, big;

point f ("Enter 3 numbers");

scanf ("%d %d %d", &a, &b, &c);

big = (a > b && a > c ? a : b > c ? b : c);

printf ("The biggest no is: %d", big);

return 0;

}

12312.cpp

```
1 #include<stdio.h>
2 int main(){
3     int a,b,c,big;
4     printf("\nEnter 3 numbers:");
5     scanf("%d %d %d",&a,&b,&c);
6     big=(a>b&&a>c?a:b>c?b:c);
7     printf("\nThe biggest number is:%d",big);
8     return 0;
9 }
```

C:\Users\mihir\Desktop\Assignment\CSL\Ass\_4\12312.exe

Enter 3 numbers:12 65 78

The biggest number is:78

Process exited after 5.064 seconds with return value 0

Press any key to continue . . .

## (using if-else)

# include &lt;stdio.h&gt;

int a, b, c;

printf ("Enter the first number\n");

scanf ("%d", &amp;a);

printf ("Enter the second numbers\n");

scanf ("%d", &amp;b);

printf ("Enter the third number\n");

scanf ("%d", &amp;c);

if (a &gt; b &amp;&amp; a &gt; c)

printf ("The no %d is largest", a);

{}

else if (b &gt; a &amp;&amp; b &gt; c)

{

printf ("The no %d is largest", b);

}

else if (c &gt; a &amp;&amp; c &gt; b)

{

printf ("The no %d is largest", c);

}

return 0;

}

File Edit Selection View Go Run Terminal Help threenumbers.c - C Tutorials - Visual Studio Code

EXPLORER ... struct.cpp classes.cpp arrays.cpp hack.cpp selectionsort.cpp multiply.cpp lab.c threenumbers.c lab.exe

> OPEN EDITORS FLOWCONTROL > pointers > threenumbers.c > main()

C TUTORIALS array\_10.c array\_10.exe array\_11.c array\_11.exe

pointers class lab.c lab.exe pntr.c pntr.exe pointers1.c pointers1.exe pointers2.c pointers2.exe pointers3.c pointers3.exe pointers4.c pointers4.exe pointers5.c pointers5.exe pointers6.c pointers6.exe

threenumbers.c threenumbers.exe 1.exe 100.exe 1234.exe alphabets.c alphabets.exe array\_1.exe

int main(){  
 int a,b,c;  
 printf("Enter first numbers\n");  
 scanf("%d",&a);  
 printf("Enter second numbers\n");  
 scanf("%d",&b);  
 printf("Enter third numbers\n");  
 scanf("%d",&c);  
 if (a>b && a>c)  
 {  
 printf("The no %d is largest", a);  
 }  
 if (b>a && b>c)  
 {  
 printf("The no %d is largest", b);  
 }  
 if (c>a && c>b)  
 {  
 printf("The no %d is largest", c);  
 }  
  
 return 0;

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 2: C/C++ Compile Run + ^ x

61  
The no 61 is greater  
PS C:\Users\mihir\Desktop\C Tutorials\FLOWCONTROL\pointers> cd "c:\Users\mihir\Desktop\C Tutorials\FLOWCONTROL\pointers"  
PS C:\Users\mihir\Desktop\C Tutorials\FLOWCONTROL\pointers> & .\"threenumbers.exe"  
Enter first numbers  
31  
Enter second numbers  
42  
Enter third numbers  
56  
The no 56 is largest  
PS C:\Users\mihir\Desktop\C Tutorials\FLOWCONTROL\pointers>

Run Testcases 0 0 Select folder (gdb) Attach (C Tutorials) Ln 27, Col 2 Spaces: 4 UTF-8 CRLF C Win32

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