ASSIGNMENT

1. Write a program to accept three digit number and find sum of all its digits.

2. Write a program to convert temperature in Celsius to Fahrenheit and vice versa.
Formula for conversion is
$$ºC = 5/9 \times (ºF - 32)$$

3. Write a program to calculate Area and Perimeter of Triangle for given length of three sides of triangle.
Use sqrt() function from math.h to calculate square root.
Perimeter = a + b + ca + b + c
Area = $\sqrt{s \times (s − a) \times (s − b) \times (s - c)}$
Test the program using values 3 ,4, 5 and 1, 2, 3 and 1, 2, 4 for a, b, c. Observe the results.

TWISTERS

```c
1. #include <stdio.h>
int main( void )
{
    int num1,num2,num3, num4;
    num1 = 100 ; num2 = 200 ;
    num2= ++num1;
    num3= num2--/2;
    num4 = printf(" %-10d ", ++num1 ) + ++num2;
    printf("%10d\t",num3);
    printf("%-10d",num4);
    return 0;
}
```

A. 101 51 113
B. 102 50 113
C. 102 50 112
D. 200 51 113

Answer: B

2. **#include<stdio.h>**
int main(void)
{
   int num1 = 0, num2 = -1 , num3 = -2, num4 = 1, ans;
   ans = num1++ || num2++ && ++num4 || num3++;
   printf("%d %d %d %d %d",num1,num2,num3,num4,ans);
   return 0;
}

A. 0 0 -2 2 0
B. 0 0 -2 2 1
C. 1 0 -1 2 0
D. 1 0 -2 2 1

Answer: D

3. **#include<stdio.h>**
int main(void)
{
   int val=0;
   int value = val++ || ++val==1 || val--;
   printf(" val=%d value=%d", val, value);
   return 0;
}

A. val=1 value=1
B. val=0 value=0
C. val=1 value=0
D. val=0 value=1

Answer: A

4.
```c
#include<stdio.h>
int main( void )
{
    int x1=1, x2=2, x3=3;
    int val=!(!((x1+x2)<(x3+1)));
    printf(" val=%d ", !val);
    return 0;
}
```

A. val=0
B. val=1
C. val=-1
D. garbage value

Answer: A