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**MATRIC NO: 18/ENG03/022**

**DEPARTMENT: CIVIL ENGINEERING**

1. Write a C program to convert 1343 days into years, weeks and days  
(Note: Ignore leap year).

```
/*program to convert days into years weeks and days*/  
#include <stdio.h>  
#include <math.h>  
int main(void)  
{  
    float d,y,w,days;  
    printf("enter days:\n");  
    scanf("%f",&d);  
    y=d/365;  
    w=d/7;  
    days=d;  
    printf("year|%.f\n",y);  
    printf("week|%.f\n",w);  
    printf("days|%.f",days);  
    return 0;  
}
```

2. Write a C program to calculate the distance between the two points.  
Note: x1, y1, x2, y2 are all double values.

```
/*program to calculate distance between two points*/  
#include <stdio.h>  
#include <math.h> //sqrt function is in the header file math.c  
int main()  
{  
    int x1,y1,x2,y2;  
    float d;  
    printf("enter first point: ");  
    scanf("%d%d",&x1,&y1);  
    printf("enter second point: ");  
    scanf("%d%d",&x2,&y2);
```

```

    d = (float)sqrt((x1-x2)*(x1-x2)+(y1-y2)*(y1-y2));
    printf("distance= %f",d);
    return 0;
}

```

3. Write a C program that reads three floating values and check if it is possible to make a triangle with them. Also, calculate the perimeter of the triangle if the said values are valid.

```

/*program to calculate perimeter of a right angled triangle*/
/*hypotenuse is larger than the opposite and the adjacent*/
#include <stdio.h>
#include <math.h>
int main()
{
    float a,b,c;
    int p,perimeter;
    printf("enter hypotenuse");
    scanf("%f",&a);
    printf("enter opposite");
    scanf("%f",&b);
    printf("enter adjacent");
    scanf("%f",&c);
    perimeter=a+b+c;
    if(a>b&&c)
        printf("p=%d",perimeter);
    else
        if(a<b&&c)
            printf("Error,the values entered cannot form a right angled triangle");
}

```

4. Write a C program to read age of 20 people and count total Baby age, School age and Adult age

```

/*program to read age of 20 people and count total Baby age, School age and Adult age.*/
#include <stdio.h>
int count;
int main(void)
{

```

```
/*print the numbers 1 through 20*/  
count=1;  
while (count<=4)  
{  
    printf("\n%d",count);  
    count++;  
}  
return 0;  
}
```