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MATRIC NO: 18/ENG07/011

DEPARTMENT: PETROLEUM 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;  
}
```