

**BELLO HANEEF**  
**ELECT/ELECT**  
**18/ENG04/023**  
**ENG 224 ASSIGMENT**

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

int main()
{
    int days, years, weeks;
    days = 1343;

    // Converts days to years, weeks and days
    years = days/365;
    weeks = (days % 365)/7;
    days = days - ((years*365) + (weeks*7));

    printf("Years: %d\n", years);
    printf("Weeks: %d\n", weeks);
    printf("Days: %d \n", days);

    return 0;
}
```

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

int main() {
    float x1, y1, x2, y2, gdistance;
    printf("Input x1: ");
    scanf("%f", &x1);
    printf("Input y1: ");
    scanf("%f", &y1);
```

```

printf("Input x2: ");
scanf("%f", &x2);
printf("Input y2: ");
scanf("%f", &y2);
gdistance = ((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1));
printf("Distance between the said points: %.4f", sqrt(gdistance));
printf("\n");
return 0;
}

```

3. #include <stdio.h>

```

int main() {
    float x, y, z, P, A;
    printf("\nInput the first number: ");
    scanf("%f", &x);
    printf("\nInput the second number: ");
    scanf("%f", &y);
    printf("\nInput the third number: ");
    scanf("%f", &z);

    if(x < (y+z) && y < (x+z) && z < (y+x))
    {
        P = x+y+z;
        printf("\nPerimeter = %.1f\n", P);
    }
    else
    {
        printf("Not possible to create a triangle..!");
    }
}

```

4. #include <stdio.h>

**int** main()

{

**int** age;

**int** cnt\_baby=0,cnt\_school=0,cnt\_adult=0;

**int** count=0;

**while**(count<20)

    {

        printf("Enter age of person [%d]: ",count+1);

        scanf("%d",&age);

**if**(age>=0 && age<=4)

            cnt\_baby++;

**else if**(age>=5 && age<=17)

            cnt\_school++;

**else**

            cnt\_adult++;

        //increase counter

        count++;

    }

    printf("Baby age: %d\n",cnt\_baby);

    printf("School age: %d\n",cnt\_school);

    printf("Adult age: %d\n",cnt\_adult);

**return** 0;

}

```
5. int main()
{
int random_genNo=0,count=0,num;
int stime;
long ltime;

//initialise srand with current time, to get random number on every run
ltime = time(NULL);
stime = (unsigned) ltime/2;
srand(stime);

//generate random number
random_genNo=rand()%1000;

//run infinite loop
while(1)
{
//increase counter
count+=1;

//read number from user
printf("\n\nGuess a number from (0 to 1000): ");
scanf("%d",&num);

//compare entered number with generated number

if(random_genNo==num){
    printf("Congratulations, you have guessed a correct number.");
    break;
}
else if(random_genNo<num){
    printf("Generated number is less than entered number, try your luck again...");
```

```
}  
  
else if(random_genNo>num){  
    printf("Generated number is greater than entered number, try your luck again...");  
}  
  
if(count==7){  
    printf("\n\n### Maximum limit of atttempt finished, BAD LUCK !!!\n");  
    break;  
}  
}  
  
return 0;  
}
```