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MATRIC NO: 18/ENG05/054

DEPT: MECHATRONICS

COURSE CODE: ENG 224

ASSIGNMENT

1.

```
#include <stdio.h>
int main()
{
    int days, years, weeks;
    days = 1343;

    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("The distance between the points: %.4f", sqrt(gdistance));
    printf("\n");
    return 0;
}
```

```
3. #include <stdio.h>
int main() {
    float x, y, z, P, A;
    printf("\nInput first number: ");
    scanf("%f", &x);
    printf("\nInput second number: ");
    scanf("%f", &y);
    printf("\nInput 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("Triangle cannot be created..!");
    }
}
```

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("Input age of the 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. #include <stdio.h>
#include <stdlib.h>
#include <time.h>

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

    ltime = time(NULL);
    stime = (unsigned) ltime/2;
    srand(stime);

    random_genNo=rand()%1000;

    while(1)
    {
        count+=1;

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

        if(random_genNo==num){
            printf("You guessed a correct number.");
            break;
        }
    }
}
```

```
}  
else if(random_genNo<num){  
    printf("The generated number is less than the number you entered, try  
    again...");  
}  
else if(random_genNo>num){  
    printf("The generated number is greater than entered number, try  
    again...");  
}  
if(count==7){  
    printf("\n\n### You have reached the limit, sorry ! \n");  
    break;  
}  
}  
return 0; }
```

```
Tools Tools+ Plugins DoxyBlocks Settings Help  
main.c x  
int main()  
{  
    int i, j = 0, Baby, School, Adult;  
    Baby = 0;  
    School = 0;  
    Adult = 0;  
    while (j < 20){  
        printf("Enter age of individual: ");  
        scanf("%d", &i);  
        j++;  
        if (i <= 4)  
        {  
            Baby += 1;  
        }  
        else if (i >= 5 && i <= 17)  
        {  
            School += 1;  
        }  
        else  
        {  
            Adult += 1;  
        }  
    }  
    printf("Babies = %d", Baby);  
    printf("School children = %d", School);  
    printf("Adults = %d", Adult);  
}
```

Build
Code-Blocks x Search results x Core x Build log x Build message
Line Message
==== Build file: "no target" in "no project"
In function 'main':
warning: implicit declaration of function 'scanf' is invalid for this declaration
warning: incompatible implicit declaration of built-in function 'scanf'
note: include '<stdio.h>' or provide a declaration for 'scanf'

2 semester\ENG 224\C Programming\Quarantine Assign\C/C++

}