

Practical-1

Aim:-Write a C Program to print the below design using printf function with help of \t & \n escape sequence(please check below the image in attachment section).

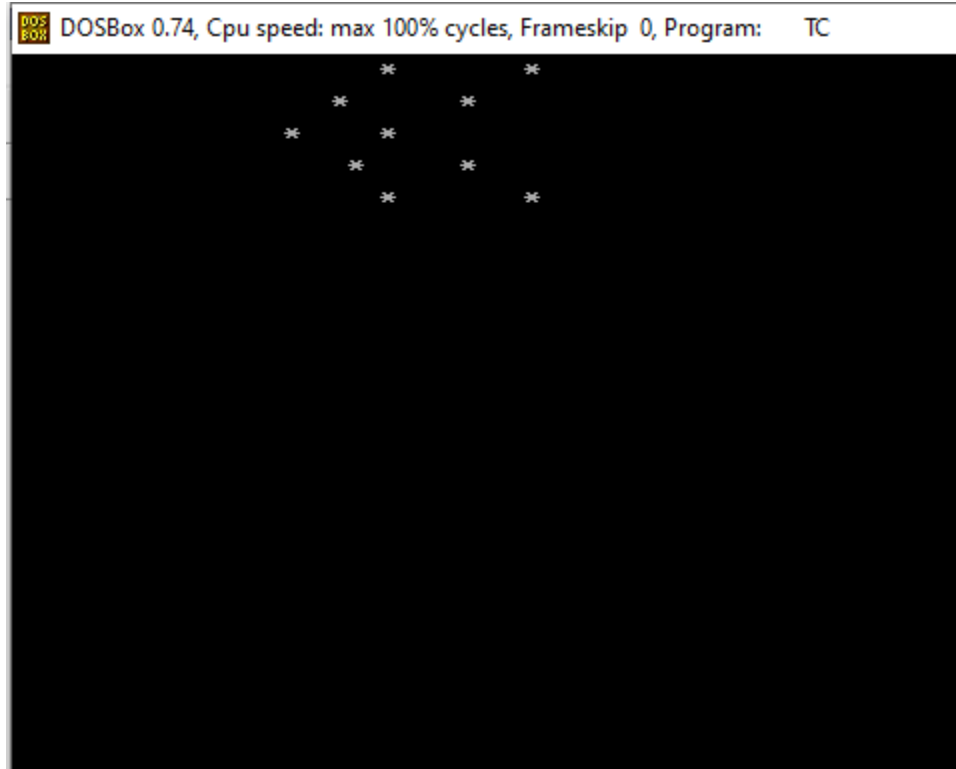
Program:1

```
#include<stdio.h>
#include<conio.h>
main()
{
    clrscr();
    printf("\t\t *      *\n");
    printf("\t\t *      *\n");
    printf("\t\t *      *\n");
    printf("\t\t *      *\n");
    printf("\t\t *      *\n");
    getch();
}
```

Program:2

```
#include<stdio.h>
#include<conio.h>
main()
{
    clrscr();
    printf("\t * * * * * \n");
    printf("\t * * * * * \n");
    printf("\t *      * \n");
    printf("\t *      * * * * \n");
    printf("\t *      * * * \n");
    printf("\t * * * * * \n");
    getch();
}
```

Output:1



Output:2

```

      *  *  *  *  *  *  *
    *  *  *  *  *  *  *
  *      *      *      *
 *      *      *  *  *  *
 *      *      *      *
 *      *  *      *      *
 *  *  *  *  *  *  *  *
```

Practical-2

Aim:- Write a C Program to perform a swapping of two variables.

Program:

```
#include<stdio.h>
#include<conio.h>
main()
{
    int a,b,c;
    clrscr();
    printf(" Enter the value of a: ");
    scanf("%d",&a);
    printf("Enter the value of b: ");
    scanf("%d",&b);
    c=a;
    a=b;
    b=c;
    printf("Swap two variable:\n a:%d\n b:%d\n",a,b);
    getch();
}
```

Output:

```
Enter the value of a: 32
Enter the value of b: 43
Swap two variable:
a:43
b:32
```

Practical-3

Aim:- Write a C program to convert temperature from degree Celsius to Fahrenheit.

Program:

```
#include<stdio.h>
#include<conio.h>
main()
{
    float f,c;
    clrscr();
    printf("Enter celsius: ");
    scanf("%f",&c);
    f=(c*9/5)+32;
    printf("Fahrenheit:%.f",f);
    getch();
}
```

Output:

```
Enter celsius: 100
Fahrenheit:212
-----
Process exited after 2.344 seconds with return value 0
Press any key to continue . . .
```

Practical-4

Aim:- Write C Program to find gross salary.

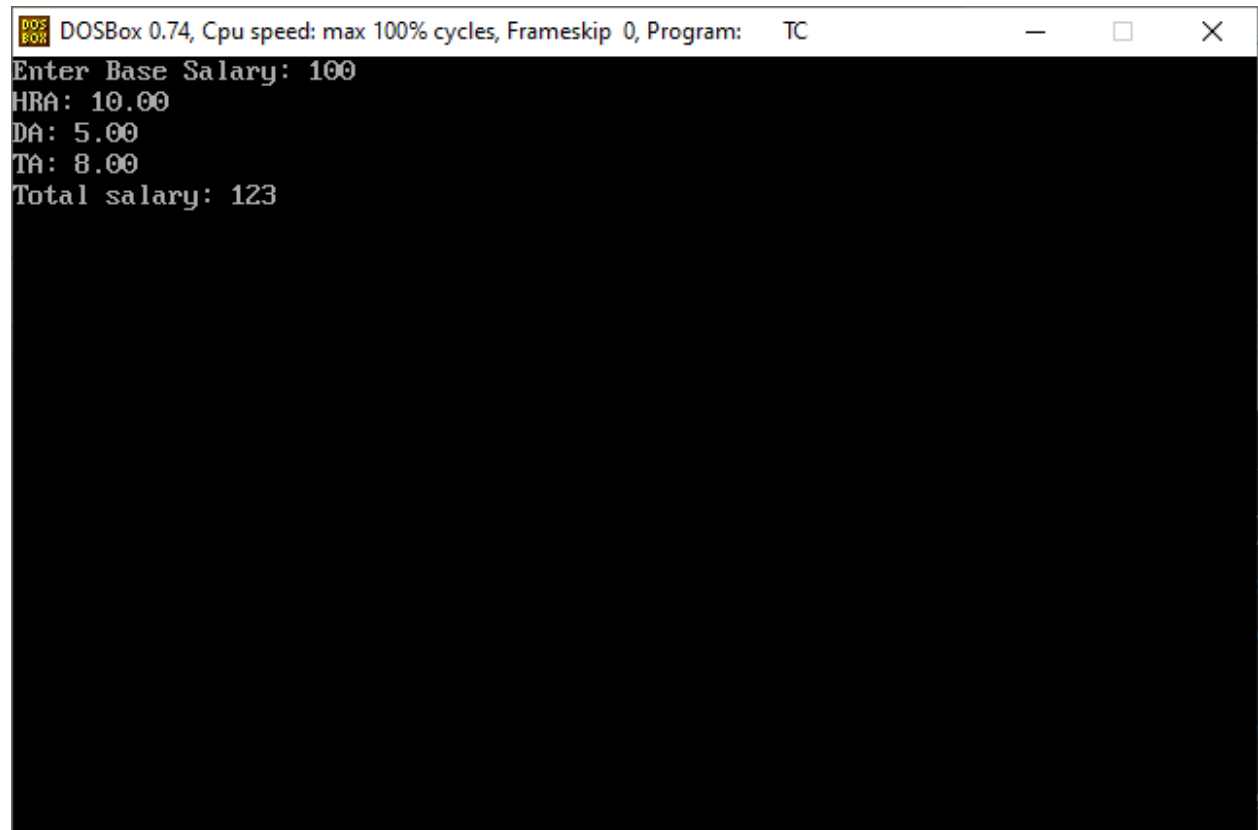
Ex. Base Salary: 100 RS, HRA=10%, DA=5%, TA=8%.

Ans = 123 RS

Program:

```
#include<stdio.h>
#include<conio.h>
main()
{
    int s,ans;
    float h,d,t;
    clrscr();
    printf("Enter Base Salary: ");
    scanf("%d",&s);
    h=0.1*s;
    printf("HRA: %.2f\n",h);
    d=0.05*s;
    printf("DA: %.2f\n",d);
    t=0.08*s;
    printf("TA: %.2f\n",t);
    ans=h+d+t+s;
    printf("Total salary: %d",ans);
    getch();
}
```

Output:

A screenshot of a DOSBox 0.74 window. The title bar shows 'DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC'. The window has standard minimize, maximize, and close buttons. The main area is black with white text. The text reads: 'Enter Base Salary: 100', 'HRA: 10.00', 'DA: 5.00', 'TA: 8.00', and 'Total salary: 123'.

```
DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC
Enter Base Salary: 100
HRA: 10.00
DA: 5.00
TA: 8.00
Total salary: 123
```

Practical-5

Aim:- Write a C Program to convert kilometer in miles and vise verse based on user input.

Program:

```
#include<stdio.h>
#include<conio.h>
main()
{
    float k,m;
    printf("Enter km: ");
    scanf("%f",&k);
    m=0.6*k;
    printf("Convert km into miles: %.2f",m);

}
```

Output:

```
Enter km: 32
Convert km into miles: 19.20
-----
Process exited after 3.084 seconds with return value 0
Press any key to continue . . .
```

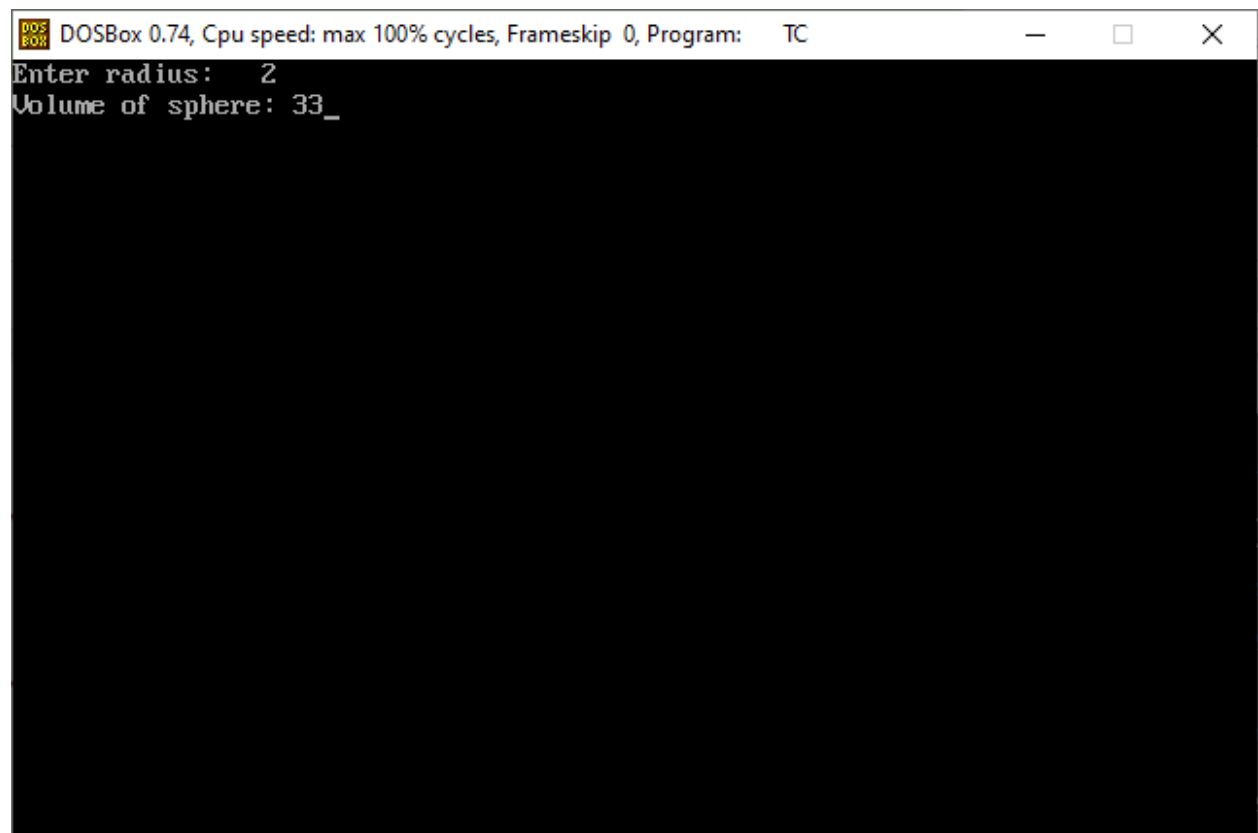
Practical-6

Aim:- Write a C program that calculates the volume of a sphere.

Program:

```
#include<stdio.h>
#include<conio.h>
main()
{
    int r;
    float pi=3.14,v;
    clrscr();
    printf("Enter radius: ");
    scanf("%d",&r);
    v=(4*3.14*r*r*r)/3;
    printf("Volume of sphere: %.f",v);
    getch();
}
```

Output:



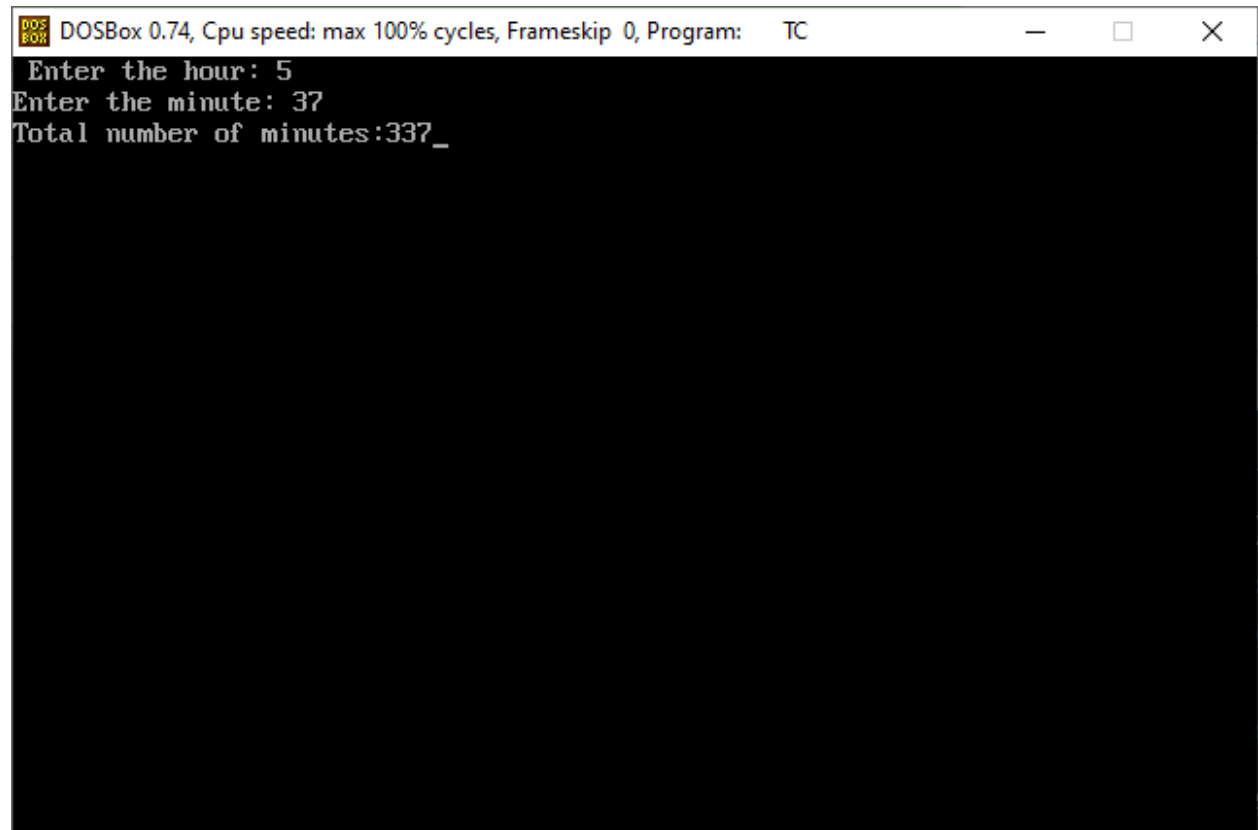
Practical-7

Aim:- Write a C program that takes hours and minutes as input, and calculates the total number of minutes.

Program:

```
#include<stdio.h>
#include<conio.h>
main()
{
    int h,min,totalmin;
    clrscr();
    printf(" Enter the hour: ");
    scanf("%d",&h);
    printf("Enter the minute: ");
    scanf("%d",&min);
    totalmin=min+(h*60);
    printf("Total number of minutes:%d",totalmin);
    getch();
}
```

Output:



```
DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC
Enter the hour: 5
Enter the minute: 37
Total number of minutes:337_
```

Practical-8

Aim:- Write a C program to find the third angle of a triangle if two angles are given.

Expected Output:

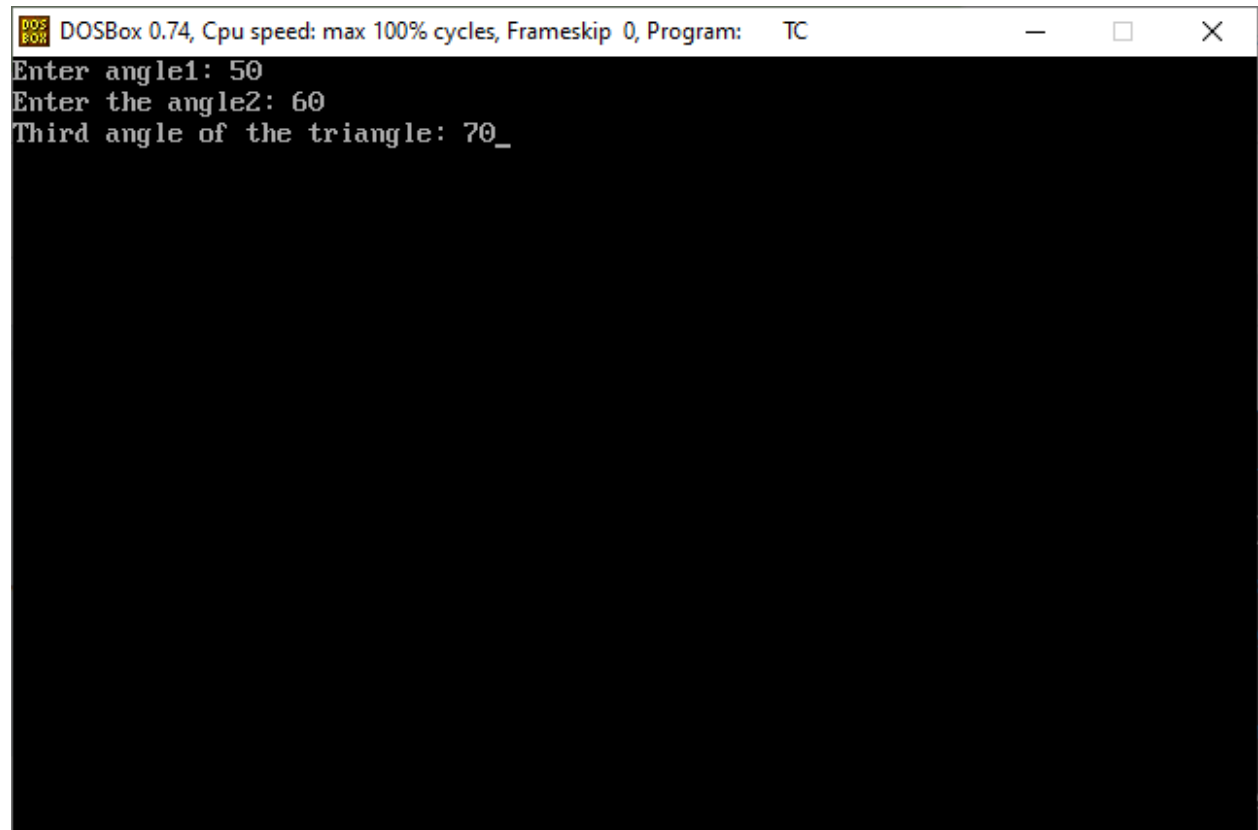
Input two angles of triangle separated by comma : 50, 70

Third angle of the triangle : 60

Program:

```
#include<stdio.h>
#include<conio.h>
main()
{
    int A,B,C;
    clrscr();
    printf("Enter angle1: ");
    scanf("%d",&A);
    printf("Enter the angle2: ");
    scanf("%d",&B);
    C=180-(A+B);
    printf("Third angle of the triangle: %d",C);
    getch();
}
```

Output:

A screenshot of a DOSBox window. The title bar reads "DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC". The window contains a black terminal area with white text. The text shows three lines of input: "Enter angle1: 50", "Enter the angle2: 60", and "Third angle of the triangle: 70_".

```
DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC
Enter angle1: 50
Enter the angle2: 60
Third angle of the triangle: 70_
```

Practical-9

Aim:- Write a C program to find velocity of given speed and time.

Program:

```
#include<stdio.h>
#include<conio.h>
main()
{
    int v,d,s,t;
    clrscr();
    printf(" Enter the speed: ");
    scanf("%d",&s);
    printf("Enter the time: ");
    scanf("%d",&t);
    //s=d/t
    //d=s*t
    //v=d/t
    d=s*t;
    v=d/t;
    printf("Velocity :%d\n",v);
    getch();
}
```

Output:

