SUBJECT: PROGRAMMING FOR PROBLEM SOLVING
ASSIGNMENT-V

UNIT - 5	SUBJECT:
Date of issue:	ROLLNO:
Date of submission:	FULL NAME:
Total Marks :	SECTION:
ANSWER ALL QUESTIONS	

2 MARK QUESTIONS:

1)
```
#include<stdio.h>
int x=-10, y=20;
void main( )
{       iner(x,&y);
        printf("x=%d, y=%d",x,y);
}
void iner(int a, int *p)
{       int x=0;
        a=a+1;
        *p=*p+1;
        printf("a=%d, x=%d",a,x);
}
```

2)
```
int qq(int a, int b)
{       return a*b;    }
void main( )
{       int i=5,j=6,c;
        c=qq(qq(i++,++j),qq(++i,j++));
                printf("%d",c);
}
```

3) What is nested structure. Write an example on nested structure.
4) What is typedef ? write down an example on it.
5) Write down syntax and example on malloc()

5 MARK QUESTIONS:

1. Write a program to create a structure called SUBJECTS having members: rollno, physics, chemistry, maths, total marks. Create a structure array to store 10 students' marks. Display the students details whose marks>=90
2. Write a program to create a structure for maintaining real and imaginary parts of a complex number. Create a function which accepts two complex numbers and performs addition.
3. Write a program to store N values using dynamic memory allocation. Then find largest and smallest number present in it using UDFs MAX() and MIN().
4. Write a program to create a structure BOOKS having members : Book code, book name, author, cost. Store 10 books details using structure array. Find the total cost of all books and the costly book exist.
5. Write a program to create an integer array of N memory locations using DMA and then using UDF find how many even numbers present in it.
6. Write a program to create a structure for maintain bank account details like AC no, name, Balance amount. Store 10 account holder's details. Create a function to display those account holders whose balance amount=0.