Program

```
main( )
{
/*……printing begins……*/

      printf("I see, I remember");

/*……printing ends……*/
}
```

Fig 1.2 A program to print one line of text

Addition of Two Numbers

Program

```
/* Programm ADDITION                                    line-1  */
/* Written by EBG                                       line-2  */
main()                                                /* line-3  */
{                                                     /* line-4  */
           int   number;                              /* line-5  */
           float amount;                              /* line-6  */
                                                      /* line-7  */
           number = 100;                              /* line-8  */
                                                      /* line-9  */
           amount = 30.75 + 75.35;                    /* line-10 */
           printf("%d\n",number);                     /* line-11 */
           printf("%5.2f",amount);                    /* line-12 */
}                                                     /* line-13 */
```

Fig.1.4 Program to add two numbers

Program

```
/*---------------------- INVESTMENT PROBLEM ---------------------*/
#define PERIOD    10
#define PRINCIPAL 5000.00
/*--------------------- MAIN PROGRAM BEGINS ---------------------*/
main()
{ /*------------------- DECLARATION STATEMENTS ----------------*/
      int year;
      float amount, value, inrate;
/*------------------- ASSIGNMENT STATEMENTS -------------------*/
      amount  =  PRINCIPAL;
      inrate  =  0.11;
      year  = 0;
```

```
/*------------------ COMPUTATION STATEMENTS -------------------*/
/*--------------- COMPUTATION USING While LOOP ----------------*/
      while(year <= PERIOD)
      {     printf("%2d          %8.2f\n",year, amount);
            value =   amount + inrate * amount;
            year      =     year + 1;
            amount    =     value;
      }
/*----------------------- while LOOP ENDS ---------------------*/
}
/*------------------------ PROGRAM ENDS -----------------------*/
```

Fig. 1.5 Program for investment problem

Program

```
/*------------------- PROGRAM USING FUNCTION ------------------*/

int mul (int a, int b);      /*------- DECLARATION ------------*/

/*-------------------- MAIN PROGRAM BEGINS --------------------*/
      main ()
      {
            int a, b, c;

            a = 5;
            b = 10;
            c = mul (a,b);

            printf ("multiplication of %d and %d is %d",a,b,c);
      }

/* ----------------     MAIN PROGRAM ENDS
                        MUL() FUNCTION STARTS -----------------*/

      int mul (int x, int y)
      int p;

      p = x*y;
      {
            return(p);
      }
/* -------------------- MUL () FUNCTION ENDS ------------------*/
```

Fig.1.7 A Program using a user-defined function

Program

```
/*--------------- PROGRAM USING COSINE FUNCTION -------------- */
 #include <math.h>
 #define   PI      3.1416
 #define   MAX     180

 main ( )
 {

      int angle;
      float x,y;

      angle = 0;
      printf("        Angle     Cos(angle)\n\n");

      while(angle  <= MAX)
      {
            x = (PI/MAX)*angle;
            y = cos(x);
            printf("%15d %13.4f\n", angle, y);
            angle = angle + 10;
      }
 }
```