

Category of Functions:

1. Functions with no arguments and no return values.
2. Functions with arguments and no return values.
3. Functions with arguments and one return value.
4. Functions with no arguments but return a value.
5. Functions that return multiple values.

(1.) Functions with No Arguments and No return val.

Q. Write a program with multiple functions that do not communicate any data between them.

```
#include <stdio.h>
#include <conio.h>
void printline (void);           fun declaration
void value (void);
main ()
{
    printline ();
    value ();
    printline ();
}
void printline (void)           fun definition
{
    int i;
    for (i=1; i<=3; i++)
        printf("%c", '-');
    printf("\n");
}
```

void value (void)

```

{
    int year, period;
    float inrate, sum, principal;
    printf("principal amount ?");
    scanf("%f", &principal);
    printf("interest rate ?");
    scanf("%f", &inrate);
    printf("period :");
    scanf("%d", &period);
    sum = principal;
    year = 1;
    while (year <= period)
    {
        sum = sum * (1 + inrate);
        year = year + 1;
    }
    printf("\n %.2f %.5.2f %.5d %.12.2f \n", principal,
        inrate, period, sum);
}

```

OUTPUT:

```

-----
principal amount ?      5000
interest rate ?         0.12
period ?                5

5000.00      0.12      5      8812.71
-----

```