* **Object: - Write a program to print average of an array**
* **Description:-**

**1 Array: -**

* **Arrays are data type that is used to represent a large number of homogeneous values.**
* **An array is a set of pairs, index and value.**
* **An array can be defined as a collection of homogeneous elements, in the form of index/value/pairs, stored in consecutive memory locations.**
* **An array always has a predefined size and the elements of an array are referenced by means of an index/subscript.**

**2 Function: -**

* **Function is a block of code that performs a particular task.**
* **Every c program can be thought of as a collection of these functions.**
* **Function name must be unique.**
* **Function has name for identification.**
* **Important parts of function – written type, function call, function declaration, function definition**
* **A c program is a collection of one or more functions.**
* **There is no limit on the number of functions that might be present in a c program.**
* **After each function has done its thing, control returns to main ().**

**PROGRAM: -**

**/\*Program to print average of an array\*/**

**#include<stdio.h> // header file**

**#include<conio.h> // header file**

**int avg(int a[]); // function declaration**

**void main()**

**{**

**int a[10],sum=0,i; //declaration**

**float average;**

**clrscr ();**

**printf(“enter the elements of an array :”);**

**for(i=0;i<10;i++) //loop**

**{**

**scanf(“%d”,&a[i]);**

**}**

**Sum=avg(a);**

**Average=(sum/10); // function call**

**Printf(“average of array =”);**

**Printf(“%f”,average);**

**getch();**

**}**

**int avg (int a[]) //function definition**

**{**

**int k=0,j;**

**for(j=0;j<10;j++);**

**{**

**K=k+a[j];**

**}**

**return k;**

**}**

