EXPERIMENT NO.6
SOLUTIONS

1   Print array element along with the index value.(use compile time and run time Initialization)

```c
#include<stdio.h>
#include<conio.h>
void main()
{int i;
int a[10]={1,2,3,4,5,6,7,8,9};
clrscr();
for(i=0;i<=8;i++)
{printf("%d is at %d\n",a[i],i);}
getch();
}
```

2   Implement C program to find largest element in a 1-D array

```c
#include<stdio.h>
#include<conio.h>
void largest(int a[]);
void main()
{int a[5]={12,34,23,20,4};
clrscr();
largest(a);
getch();}
void largest(int a[])
{int i,max;
max=a[0];
for(i=1;i<=4;i++)
{if(max<a[i])
{max=a[i];}
}
printf("largest element is =%d",max);
}
```

3   Implement C program to read 5 elements of a 1-D array and display those with their index on output screen(Note: Read elements at both compile time and runtime)

```c
#include<stdio.h>
#include<conio.h>
void main()
{int a[5],i;
clrscr();
printf("enter array value\n");
for(i=0;i<=4;i++)
```

```c
{scanf("%d",&a[i]);
printf("%d is at %d\n",a[i],i);}

getch();
}
```

4   Implement C program to find the sum of all elements in a 1-D array

```c
#include<stdio.h>
#include<conio.h>
void main()
{int i,a[5],sum=0;
clrscr();
printf("enter array elements\n");
for(i=0;i<=4;i++)
{scanf("%d",&a[i]);
} printf("sum of array\n");
for(i=0;i<=4;i++)
{sum=sum+a[i];}
printf("%d",sum);
getch();
}
```

5   Implement C program to find the average of N elements of 1-D array. (Read N from user).

```c
#include<stdio.h>
#include<conio.h>
void main()
{int i,a[5],sum=0,avr;
clrscr();
printf("enter array elements\n");
for(i=0;i<=4;i++)
{scanf("%d",&a[i]);}
printf("avrage is:\n");
for(i=0;i<=4;i++)
{sum=sum+a[i];}
avr=(sum)/5;
printf("%d\n",avr);
getch();
}
```