LAB-6-EVALUATION PROGRAMS

PROGRAM-1- SUM OF SQUARES OF ODD NUMBERS

```c
//                                          SUM OF SQUARES OF ODD NUMBERS
#include <stdio.h>

int main()
{
    int i, n,sum=0;
    printf("Enter any number = ");
    scanf("%d", &n);
    for(i=1; i<=n;i++)
    {
    sum += (2*i - 1) * (2*i - 1);
    }
    printf("Sum of square of odd numbers = %d", sum);
    return 0;
}
```

OUTPUT:

"C:\Users\jhana\OneDrive\Documents\C Programming\C Programming\Sum of square of odd numbers.exe"

```
Enter any number = 10
Sum of square of odd numbers = 1330
Process returned 0 (0x0)   execution time : 14.387 s
Press any key to continue.
```

"C:\Users\jhana\OneDrive\Documents\C Programming\C Programming\Sum of square of odd numbers.exe"

```
Enter any number = 5
Sum of square of odd numbers = 165
Process returned 0 (0x0)   execution time : 5.092 s
Press any key to continue.
```

PROGRAM-2-INTERCHANGING THE SMALLEST AND LARGEST NUMBERS IN A GIVEN ARRAY

```c
//                                        INTERCHANGING THE SMALLEST AND LARGEST NUMBER IN A GIVEN ARRAY
#include<stdio.h>
int  main( )
{
int  a[10],b[10],n,small=0,large=0,i,smallest_pos,largest_pos,temp;
printf(" Enter the numbers of elements = ");
scanf("%d",&n);
printf("\n Enter the elements = ");
for (i=0;i<n;i++)
{
scanf("%d",&a[i]);
b[i] = a[i];
}
small = a[1];
for (i=0;i<n;i++)
{
if (a[i] <= small )
{
small = a[i];
smallest_pos = i;
}
if (large <= a[i] )
{
large = a[i];
largest_pos = i;
}
}
temp = a[smallest_pos];
a[smallest_pos] = a[largest_pos];
a[largest_pos] = temp;

printf("\n The entered array  = ");
for (i=0;i<n;i++)
printf(" %d \t",b[i]);

printf("\n The Array after interchanging the largest and smallest element = ") ;
for (i=0;i<n;i++)
printf(" %d \t",a[i]);
return 0;
}
```

OUTPUT:

"C:\Users\jhana\OneDrive\Documents\C Programming\C Programming\interchange small and large.exe"

```
 Enter the numbers of elements = 5

 Enter the elements = 1 2 3 4 5

 The entered array  =  1         2        3        4        5
 The Array after interchanging the largest and smallest element =  5     2        3        4        1
Process returned 0 (0x0)   execution time : 13.638 s
Press any key to continue.
```

"C:\Users\jhana\OneDrive\Documents\C Programming\C Programming\interchange small and large.exe"

```
 Enter the numbers of elements = 10

 Enter the elements = 1 2 3 4 5 6 7 8 9 10

 The entered array  =  1         2        3        4        5        6        7        8        9        10
 The Array after interchanging the largest and smallest element =  10    2        3        4        5        6        7
         8        9        1
Process returned 0 (0x0)   execution time : 10.086 s
Press any key to continue.
```

```c
//
#include<stdio.h>
int  main( )
{
int  a[10],b[10],n,small=0,large=0,i,smallest_pos,largest_pos,temp;
```