

Lab : Revision Of C

1. Write a program in C to display the first 10 natural numbers.

Expected Output :

1 2 3 4 5 6 7 8 9 10

Solution:

```
#include <stdio.h>
void main()
{
    int i;
    printf("The first 10 natural numbers are:\n");
    for (i=1;i<=10;i++)
    {
        printf("%d ",i);
    }
    printf("\n"); }
```

2. Write a program in C to find the sum of all elements of an array.

```
1  #include <stdio.h>
2
3  void main()
4  {
5      int a[100];
6      int i, n, sum=0;
7
8
9      printf("\n\nFind sum of all elements of array:\n");
10     printf("-----\n");
11
12     printf("Input the number of elements to be stored in the array :");
13     scanf("%d",&n);
14
15     printf("Input %d elements in the array :\n",n);
16     for(i=0;i<n;i++)
17     {
18         printf("element - %d : ",i);
19         scanf("%d",&a[i]);
20     }
21
22     for(i=0; i<n; i++)
23     {
```

```

24         sum += a[i];
25     }
26
27     printf("Sum of all elements stored in the array is : %d\n\n", sum);
28 }

```

3. Find square of a number using function

```

1 #include <stdio.h>
2
3 double square(double num)
4 {
5     return (num * num);
6 }
7 int main()
8 {
9     int num;
10    double n;
11    printf("\n\n Function : find square of any number :\n");
12    printf("-----\n");
13
14    printf("Input any number for square : ");
15    scanf("%d", &num);
16    n = square(num);
17    printf("The square of %d is : %.2f\n", num, n);
18    return 0;
19 }

```

4. Add two numbers using pointers.

```

1 #include <stdio.h>
2 int main()
3 {
4     int fno, sno, *ptr, *qtr, sum;
5
6     printf("\n\n Pointer : Add two numbers :\n");
7     printf("-----\n");
8
9     printf(" Input the first number : ");
10    scanf("%d", &fno);
11    printf(" Input the second number : ");
12    scanf("%d", &sno);
13
14    ptr = &fno;
15    qtr = &sno;
16
17    sum = *ptr + *qtr;
18
19    printf(" The sum of the entered numbers is : %d\n\n", sum);

```

```
20
21  return 0;
22 }
```