

## TASK1:

```
1 #include <stdio.h>
2
3 int square(int n){
4     return n*n;
5 }
6
7
8 int main(){
9     int n;
10    printf("Enter a number:");
11    scanf("%d",&n);
12
13    int result=square(n);
14    printf("the square of number:%d",result);
15    return 0;
16
17 }
18
19
20
```

C:\Users\FAST.KHIFAST\Docu... x + v

Enter a number:6  
the square of number:36  
-----  
Process exited after 4.883 seconds with return value 0  
Press any key to continue . . . |

## TASK 2:

```
1 #include <stdio.h>
2
3 int main(){
4     int arr[5];
5     int i;
6
7     for(i=0;i<5;i++){
8         printf("Enter 5 numbers:");
9         scanf("%d",&arr[i]);
10    }
11    int *p=arr;
12    for(i=0;i<5;i++){
13        printf("Address of arr[%d]:%d,value:%d\n",i,(p+i),*(p+i));
14    }
15    return 0;
16
17 }
18
19
20
21
```

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Enter 5 numbers:5  
Enter 5 numbers:4  
Enter 5 numbers:3  
Enter 5 numbers:6  
Enter 5 numbers:8  
Address of arr[0]:6487536,value:5  
Address of arr[1]:6487540,value:4  
Address of arr[2]:6487544,value:3  
Address of arr[3]:6487548,value:6  
Address of arr[4]:6487552,value:8  
-----  
Process exited after 4.646 seconds with return value 0  
Press any key to continue . . . |

### TASK 3:

```
1  #include <stdio.h>
2  int main(){
3
4
5  int Matrix[2][3]={{20,49,58},{22,45,57,30}};
6  int sum=0;
7  int maxValue=Matrix[0][0];
8
9  const int rows=2;
10 const int col=3;
11 const int total_elements=rows*col;
12 printf("\n");
13 int b;
14 for(b=0;b<rows;b++){
15     int c;
16     for(c=0;c<col;c++){
17         int current_el=Matrix[b][c];
18         printf("%4d",current_el);
19
20         sum=sum+current_el;
21         if(current_el>maxValue){
22             maxValue=current_el;
23         }
24     }
25
26
27 }
28 printf("\n");
29 }
30 float averageValue=(float)sum/total_el;
```

```

    }
    printf("\n");
}
float averageValue=(float)sum/total_el;

printf("total sum:%d\n",sum);
printf("Average Value sum:%.2f\n",averageValue);
printf("Max value :%d\n",max);

return 0;
}

```

## TASK 4:

```

1  #include <stdio.h>
2
3
4  int findMax(int arr[], int size) {
5      int max = arr[0];
6      int i;
7
8      for ( i = 1; i < size; i++) {
9          if (arr[i] > max) {
10             max = arr[i];
11          }
12      }
13
14      return max;
15  }
16
17  int main() {
18      int arr[] = {12, 45, 7, 89, 23, 56, 78};
19      int size = sizeof(arr) / sizeof(arr[0]);
20
21      int highest = findMax(arr, size);
22
23      printf("The maximum value in the array is: %d\n", highest);
24
25      return 0;
26  }
27

```

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The maximum value in the array is: 89

-----

Process exited after 0.03059 seconds with return value 0  
Press any key to continue . . . |