

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
```

The terminal window shows the following output:
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
5     int arr[5];
6     int i;
7
8     for(i=0;i<5;i++){
9         printf("Enter 5 numbers:");
10        scanf("%d",&arr[i]);
11    }
12    int *p=arr;
13    for(i=0;i<5;i++){
14        printf("Address of arr[%d]:%d,value:%d\n",i,(p+i),*(p+i));
15    }
16    return 0;
17
18 }
19
20
```

The terminal window shows the following output:
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;
```

```

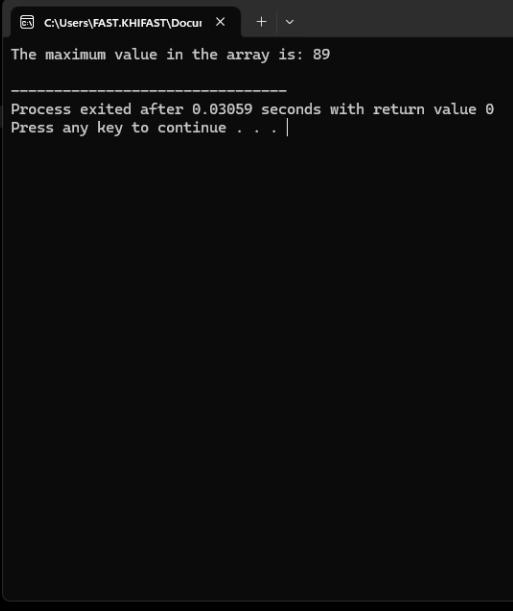
    }
    printf("\n");
}
float averageValue=(float)sum/total_el;

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 }

```

The maximum value in the array is: 89

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