

TASK #4:

```
1 #include <stdio.h>
2
3 int main() {
4     int scores[10] = {55, 72, 68, 91, 47, 85, 77, 64, 58, 80};
5     int temp, i, j;
6     float median;
7
8     for(i = 0; i < 9; i++) {
9         for(j = i + 1; j < 10; j++) {
10            if(scores[i] > scores[j]) {
11                temp = scores[i];
12                scores[i] = scores[j];
13                scores[j] = temp;
14            }
15        }
16    }
17
18    printf("Sorted scores: ");
19    for(i = 0; i < 10; i++)
20        printf("%d ", scores[i]);
21
22    median = (scores[4] + scores[5]) / 2.0;
23
24    printf("\nMedian score = %.2f\n", median);
25    return 0;
26 }
27 }
```

```
Sorted scores: 47 55 58 64 68 72 77 80 85 91
Median score = 70.00
```

```
...Program finished with exit code 0
Press ENTER to exit console.[]
```

TASK #5:

```
1 #include <stdio.h>
2
3 int main() {
4     int grades[10] = {78, 65, 90, 82, 56, 88, 92, 71, 63, 80};
5     int i, sum = 0, max = grades[0], min = grades[0];
6     int maxIndex = 0, minIndex = 0;
7
8     printf("Grades: ");
9     for(i = 0; i < 10; i++) {
10         printf("%d ", grades[i]);
11         sum += grades[i];
12         if(grades[i] > max) {
13             max = grades[i];
14             maxIndex = i;
15         }
16         if(grades[i] < min) {
17             min = grades[i];
18             minIndex = i;
19         }
20     }
21 }
22
23 float avg = sum / 10.0;
24 printf("\nAverage Grade = %.2f", avg);
25 printf("\nHighest Grade = %d (Index %d)", max, maxIndex);
26 printf("\nLowest Grade = %d (Index %d)", min, minIndex);
27
28
29 printf("\n\nUpdating lowest grade...\n");
30 grades[minIndex] = 75;
31
32 printf("Updated Grades: ");
33 for(i = 0; i < 10; i++)
34     printf("%d ", grades[i]);
35
36 printf("\n");
37 return 0;
38 }
```



```

Grades: 78 65 90 82 56 88 92 71 63 80
Average Grade = 76.50
Highest Grade = 92 (Index 6)
Lowest Grade = 56 (Index 4)

Updating lowest grade...
Updated Grades: 78 65 90 82 75 88 92 71 63 80

...Program finished with exit code 0
Press ENTER to exit console.█

```

TASK#6:

```

1 1 #include <stdio.h>
2
3
4 int main() {
5     int num[5], result[5][3];
6     int i;
7
8     printf("Enter 5 numbers: ");
9     for(i = 0; i < 5; i++)
10        scanf("%d", &num[i]);
11
12    for(i = 0; i < 5; i++) {
13        result[i][0] = num[i] + 10;
14        result[i][1] = num[i] - 5;
15        result[i][2] = num[i] * 2;
16    }
17
18    printf("\nNumber | +10 | -5 | *2\n");
19    for(i = 0; i < 5; i++)
20        printf("%6d | %3d | %2d | %2d\n", num[i], result[i][0], result[i][1], result[i][2]);
21
22    return 0;
23 }
24

```

```

Enter 5 numbers: 4
6
8
7
2

Number | +10 | -5 | *2
4 | 14 | -1 | 8
6 | 16 | 1 | 12
8 | 18 | 3 | 16
7 | 17 | 2 | 14
2 | 12 | -3 | 4

...Program finished with exit code 0
Press ENTER to exit console.█

```

TASK #7:

```

1 #include <stdio.h>
2
3
4 int main() {
5     int ids[10], i, j, value, n = 10;
6
7     printf("Enter 10 product IDs (3 digits): ");
8     for(i = 0; i < n; i++)
9         scanf("%d", &ids[i]);
10
11    printf("Enter product ID to remove: ");
12    scanf("%d", &value);
13
14    for(i = 0; i < n; i++) {
15        if(ids[i] == value) {
16            for(j = i; j < n - 1; j++)
17                ids[j] = ids[j + 1];
18            n--;
19            i--;
20        }
21    }
22
23    printf("Updated list of product IDs: ");
24    for(i = 0; i < n; i++)
25        printf("%d ", ids[i]);
26
27    printf("\n");
28    return 0;
29 }
30

```

```

Enter 10 product IDs (3 digits): 10
3
5
8
9
4
3
6
2
8
Enter product ID to remove: 9
Updated list of product IDs: 10 3 5 8 4 3 6 2 8

...Program finished with exit code 0
Press ENTER to exit console.□

```

TASK#8:

```
1 #include <stdio.h>
2 #include <ctype.h>
3
4 int main() {
5     char str[100];
6     int i;
7
8     printf("Enter a string: ");
9     gets(str);
10
11    for(i = 0; str[i] != '\0'; i++) {
12        if(strchr("aeiou", str[i]))
13            str[i] = toupper(str[i]);
14    }
15
16    printf("Modified string: %s\n", str);
17    return 0;
18}
19
20
```

TASK #9:

```
1 #include <stdio.h>
2
3
4 int main() {
5     int arr1[5], arr2[5], merged[10];
6     int i, j;
7
8     printf("Enter 5 elements for first array: ");
9     for(i = 0; i < 5; i++)
10        scanf("%d", &arr1[i]);
11
12    printf("Enter 5 elements for second array: ");
13    for(i = 0; i < 5; i++)
14        scanf("%d", &arr2[i]);
15
16    for(i = 0; i < 5; i++)
17        merged[i] = arr1[i];
18
19    for(j = 0; j < 5; j++)
20        merged[i + j] = arr2[j];
21
22    printf("Merged array: ");
23    for(i = 0; i < 10; i++)
24        printf("%d ", merged[i]);
25
26    printf("\n");
27    return 0;
28 }
29
```

```
Enter 5 elements for first array: 4
8
3
9
5
Enter 5 elements for second array: 4
8
7
5
3
Merged array: 4 8 3 9 5 4 8 7 5 3

...Program finished with exit code 0
Press ENTER to exit console.
```

TASK#10:

```
2 #include <stdio.h>
3
4 int main() {
5     int n, i, index, newValue;
6
7     printf("Enter number of elements: ");
8     scanf("%d", &n);
9
10    int arr[n];
11
12    for(i = 0; i < n; i++) {
13        printf("Enter element %d: ", i);
14        scanf("%d", &arr[i]);
15    }
16
17    printf("Array elements: ");
18    for(i = 0; i < n; i++)
19        printf("%d ", arr[i]);
20
21    printf("\nEnter index to modify: ");
22    scanf("%d", &index);
23
24    if(index >= 0 && index < n) {
25        printf("Enter new value: ");
26        scanf("%d", &newValue);
27        arr[index] = newValue;
28    }
29
30    printf("Updated array: ");
31    for(i = 0; i < n; i++)
32        printf("%d ", arr[i]);
33
34    printf("\n");
35    return 0;
36 }
```

```
Enter number of elements: 10
Enter element 0: 2
Enter element 1: 3
Enter element 2: 7
Enter element 3: 5
Enter element 4: 4
Enter element 5: 9
Enter element 6: 3
Enter element 7: 2
Enter element 8: 5
Enter element 9: 4
Array elements: 2 3 7 5 4 9 3 2 5 4
Enter index to modify: 8
Enter new value: 4
Updated array: 2 3 7 5 4 9 3 2 4 4
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```