

```

#include <stdio.h>

int main() {
    int n, sum = 0;

    printf("Enter the number of elements in the array: ");
    scanf("%d", &n);

    int arr[n];

    printf("Enter %d elements:\n", n);
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    int *ptr = arr;
    for(int i=0; i<n; i++)
    {
        sum += *(ptr + i);
    }

    printf("Sum of elements: %d\n", sum);

    return 0;
}

```

```

Enter the number of rows: 2
Enter the number of columns: 3
Enter the elements of the matrix:
3 4 5 6 2 7
The entered matrix is:
3  4  5
6  2  7

```

```

#include <stdio.h>

int main()
{

    int x, y, *a, *b, temp;

    printf("Enter the value of x and y\n");
    scanf("%d%d", &x, &y);

    a = &x;

```

```
b = &y;
```

```
temp = *b;
```

```
*b = *a;
```

```
*a = temp;
```

```
printf("After Swapping\nx = %d\ny = %d\n", x, y);
```

```
return 0;
```

```
}
```

```
Enter the value of x and y
43 53
After Swapping
x = 53
y = 43
```

```
#include <stdio.h>
```

```
#include <string.h>
```

```
int main() {
```

```
    char name[] = "harshita";
```

```
    char *ptr = name;
```

```
    int L = strlen(ptr);
```

```
    int i;
```

```
    printf("length=%d\n", L);
```

```
    for (i = 1; i <= L; i++) {
```

```
        printf("%c", *(ptr + L - i));
```

```
    }
```

```
    return 0;
```

```
}
```

```
length=8
atihsrh
```

```
#include <stdio.h>
```

```
void power(int *x, int *y, int **result);
```

```
int main() {
```

```
    int x, y, *result_ptr;
```

```
    printf("Enter the values of x and y: ");
```

```

scanf("%d %d", &x, &y);

power(&x, &y, &result_ptr);
printf("Result: %d\n", *result_ptr);

return 0;
}

```

```

void power(int *a, int *b, int **result) {
    int count = 1;

    for (int i = 1; i <= *b; i++) {
        count *= *a;
    }

    *result = &count;
}

```

```

Enter the values of x and y: 4 5
Result: 1024

```

```

#include <stdio.h>
#include <stdlib.h>

```

```

int main() {
    int rows,cols;
    printf("Enter the number of rows: ");
    scanf("%d", &rows);

    printf("Enter the number of columns: ");
    scanf("%d", &cols);

    int **matrix = (int **)malloc(rows * sizeof(int *));
    for (int i = 0; i < rows; i++) {
        matrix[i] = (int *)malloc(cols * sizeof(int));
    }
    printf("Enter the elements of the matrix:\n");
    for (int i = 0; i < rows; i++) {
        for (int j = 0; j < cols; j++) {
            scanf("%d", &matrix[i][j]);
        }
    }
}

```

```

printf("The entered matrix is:\n");
for (int i = 0; i < rows; i++) {

```

```
        for (int j = 0; j < cols; j++) {  
            printf("%d\t", matrix[i][j]);  
        }  
        printf("\n");  
    }  
  
    for (int i = 0; i < rows; i++) {  
        free(matrix[i]);  
    }  
    free(matrix);  
  
    return 0;  
}
```

```
Enter the number of rows: 2  
Enter the number of columns: 3  
Enter the elements of the matrix:  
3 4 5 6 2 7  
The entered matrix is:  
3  4  5  
6  2  7
```