TASK #1:
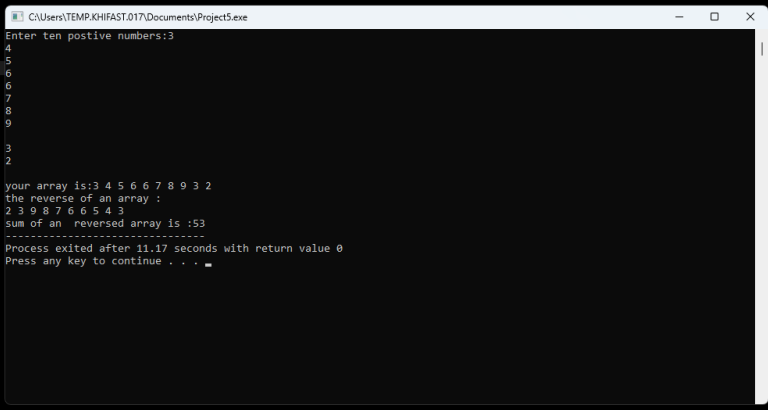
```c
#include <stdio.h>
#include <string.h>
int main(){

int num[10],i,temp,sum=0;
    printf("Enter ten postive numbers:");
for(i=0;i<10;i++){

    scanf("%d",&num[i]);
}
printf("\nyour array is:\n");
    for(i=0;i<10;i++){
        printf("%d ",num[i]);
    }

    for(i=0;i<5;i++){
        temp=num[i];
        num[i]=num[9-i];
        num[9-i]=temp;
    }

    printf("\nthe reverse of an array :\n");
    for(i=0;i<10;i++){

        printf("%d ",num[i]);
        sum=sum+num[i];
    }
    printf("\nsum of an  reversed array is :%d",sum);
    return 0;
}
```
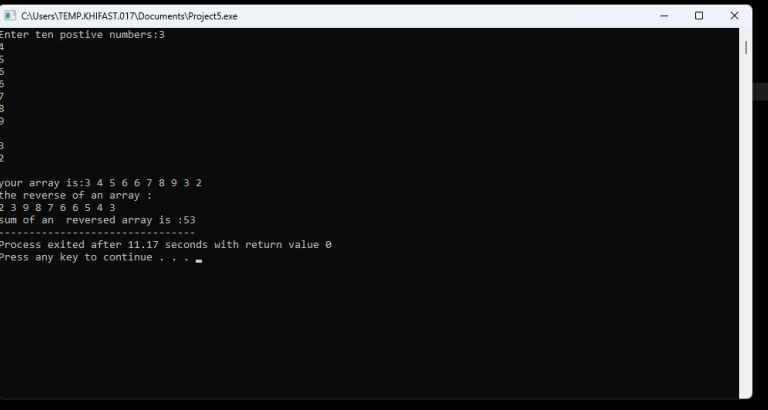
Console output:
```
Enter ten postive numbers:3
4
5
6
6
7
8
9

3
2
your array is:3 4 5 6 6 7 8 9 3 2
the reverse of an array :
2 3 9 8 7 6 6 5 4 3
sum of an  reversed array is :53
--------------------------------
Process exited after 11.17 seconds with return value 0
Press any key to continue . . .
```

TASK #2:

```c
#include <stdio.h>
#include <string.h>
int main(){

int num[10];
int i;

    int oddsum=0,evensum=0;
    int even=0,odd=0;
    printf("Enter ten postive numbers:");
    for( i=0;i<10;i++){
        scanf("%d",&num[i]);
}
for(i=0;i<10;i++){

    if(num[i]%2==0){
        even++;

        evensum=evensum+num[i];
    }
    else{
        odd++;

        oddsum=oddsum+num[i];
    }
}

    if(even ==0){

        printf("\n no even numbers:");
```

Console output:
```
Enter ten postive numbers:3
4
5
6
6
7
8
9

3
2
your array is:3 4 5 6 6 7 8 9 3 2
the reverse of an array :
2 3 9 8 7 6 6 5 4 3
sum of an  reversed array is :53
--------------------------------
Process exited after 11.17 seconds with return value 0
Press any key to continue . . .
```

```c
19            evensum=evensum+num[i];
20        }
21        else{
22            odd++;
23
24            oddsum=oddsum+num[i];
25        }
26    }
27
28    if(even ==0){
29
30        printf("\n no even numbers:");
31
32    }
33    else{
34        printf("\neven sum is :%d \n odd sum is:%d",evensum);
35    }
36    if(odd==0){
37        printf("\n no odd numbers");
38    }
39    else
40    {
41        printf("\n odd sum is:%d",oddsum);
42    }
43
44    return 0;
45 }
```

TASK #3:

```c
#include <stdio.h>

int main() {
    char str[100];
    char ch;
    int count = 0;
    int i;



    printf("Enter a string: ");
    fgets(str, sizeof(str), stdin);


    printf("Enter the character to search for: ");
    scanf("%c", &ch);

    for (i = 0; str[i] != '\0'; i++) {
        if (str[i] == ch) {
            count++;
        }
    }



    if (count > 0) {
        printf("The character '%c' appearred %d time in the string.\n", ch, count);
    } else {
        printf("The character '%c' does not appear in the string.\n", ch);
    }

    return 0;
```

```
C:\Users\TEMP.KHIFAST.017\Documents\Project5.exe

Enter a string: hello world
Enter the character to search for: o
The character 'o' appearred 2 time in the string.

--------------------------------
Process exited after 20.2 seconds with return value 0
Press any key to continue . . . _
```