

TASK #1:

The screenshot shows a terminal window titled 'C:\Users\TEMP.KHIFAST.017\Documents\Project5.exe'. The user enters 'Enter ten positive numbers:' followed by the numbers 3, 4, 5, 6, 6, 7, 8, 9, 3, 2. The program then prints the array, its reverse, and the sum of the reversed array.

```
1 #include <stdio.h>
2 #include <string.h>
3 int main(){
4
5     int num[10],i,temp,sum=0;
6     printf("Enter ten positive numbers:");
7     for(i=0;i<10;i++){
8
9         scanf("%d",&num[i]);
10    }
11    printf("\nyour array is:\n");
12    for(i=0;i<10;i++){
13        printf("%d ",num[i]);
14    }
15
16    for(i=0;i<5;i++){
17        temp=num[i];
18        num[i]=num[9-i];
19        num[9-i]=temp;
20    }
21
22    printf("\nthe reverse of an array :\n");
23    for(i=0;i<10;i++){
24
25        printf("%d ",num[i]);
26        sum+=num[i];
27    }
28    printf("\nsum of an reversed array is :%d",sum);
29    return 0;
30 }
```

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:

The screenshot shows a terminal window titled 'C:\Users\TEMP.KHIFAST.017\Documents\Project5.exe'. The user enters 'Enter ten positive numbers:' followed by the numbers 3, 4, 5, 6, 6, 7, 8, 9, 3, 2. The program then prints the array, its reverse, and the sum of the reversed array.

```
1 #include <stdio.h>
2 #include <string.h>
3 int main(){
4
5     int num[10];
6     int i;
7
8     int oddsum=0,evensum=0;
9     int even=0,odd=0;
10    printf("Enter ten positive numbers:");
11    for( i=0;i<10;i++){
12        scanf("%d",&num[i]);
13    }
14    for(i=0;i<10;i++){
15
16        if(num[i]%2==0){
17            even++;
18
19            evensum=evensum+num[i];
20        }
21        else{
22            odd++;
23
24            oddsum=oddsum+num[i];
25        }
26    }
27
28    if(even ==0){
29        printf("\n no even numbers:");
30    }
31 }
```

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 . . .

```

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

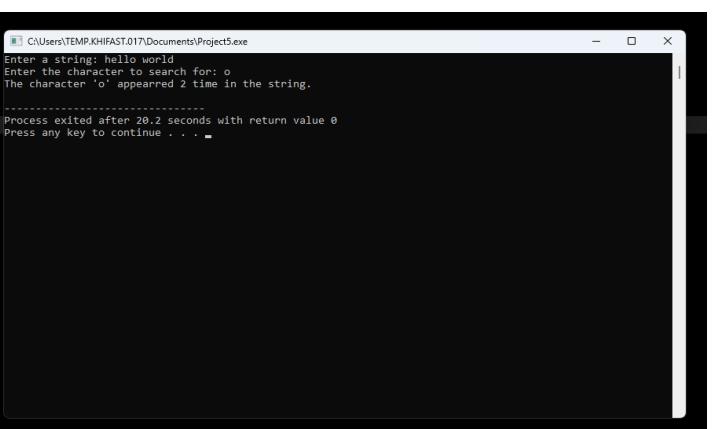
```

TASK #3:

```

1 #include <stdio.h>
2
3 int main() {
4     char str[100];
5     char ch;
6     int count = 0;
7     int i;
8
9     printf("Enter a string: ");
10    fgets(str, sizeof(str), stdin);
11
12
13    printf("Enter the character to search for: ");
14    scanf("%c", &ch);
15
16    for (i = 0; str[i] != '\0'; i++) {
17        if (str[i] == ch) {
18            count++;
19        }
20    }
21
22
23    if (count > 0) {
24        printf("The character '%c' appeared %d time in the string.\n", ch, count);
25    } else {
26        printf("The character '%c' does not appear in the string.\n", ch);
27    }
28
29    return 0;
30

```



The terminal window shows the following interaction:

```

C:\Users\TEMP.KHIFAST.017\Documents\Project5.exe
Enter a string: Hello world
Enter the character to search for: o
The character 'o' appeared 2 time in the string.

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

```