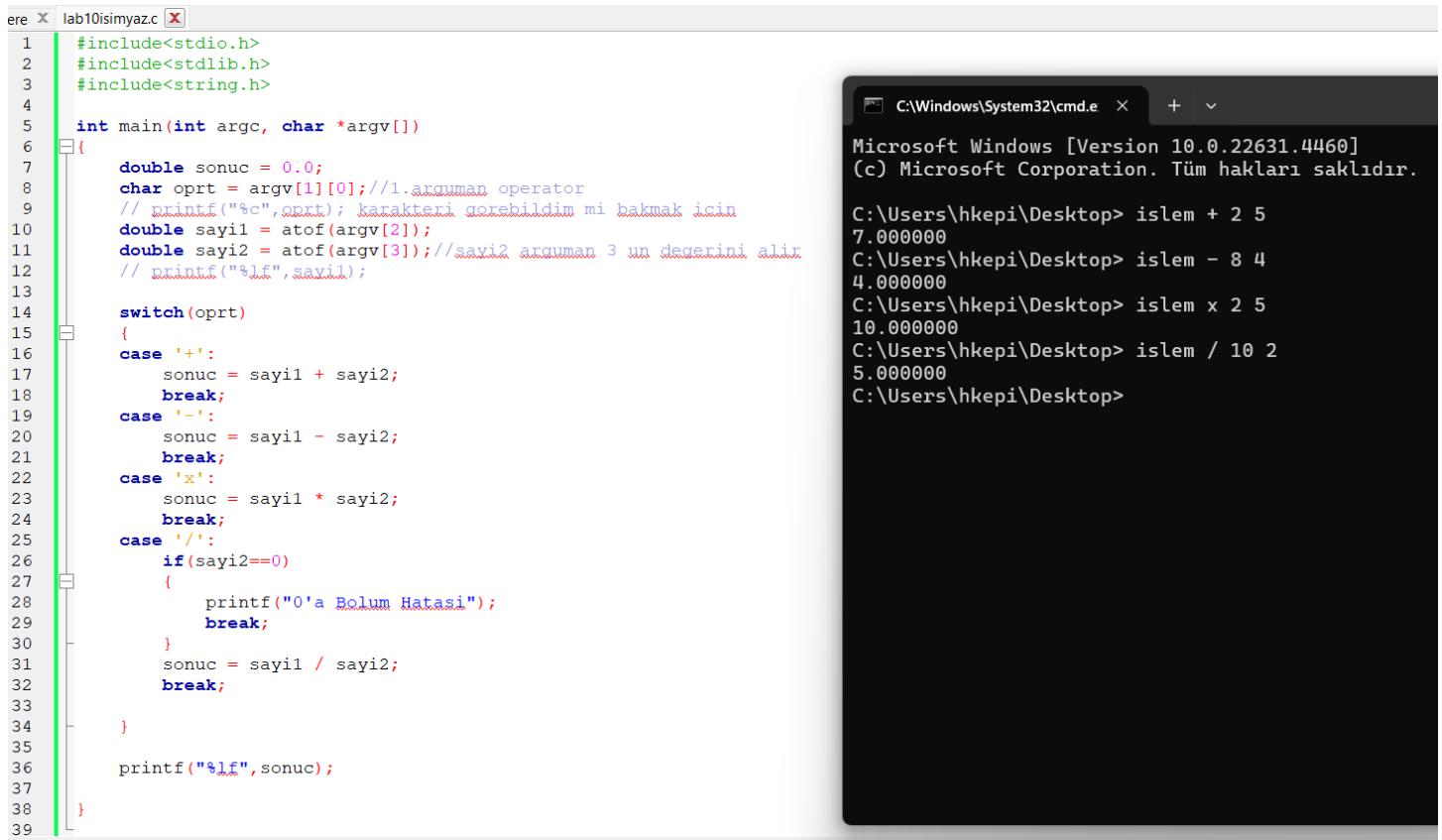


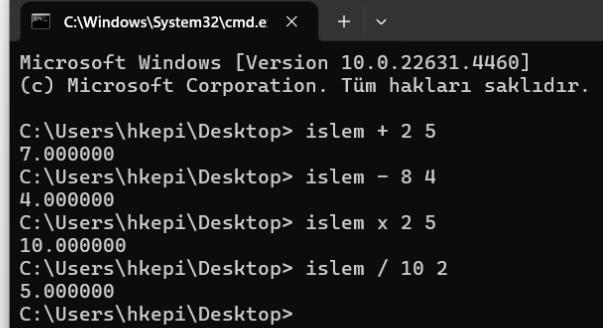
## Soru 1



```

1 #include<stdio.h>
2 #include<stdlib.h>
3 #include<string.h>
4
5 int main(int argc, char *argv[])
6 {
7     double sonuc = 0.0;
8     char oprt = argv[1][0]; // 1. arguman operator
9     // printf("%c", oprt); karakteri gorebildim mi bilmek icin
10    double sayil = atof(argv[2]);
11    double sayi2 = atof(argv[3]); // sayi2 arguman 3 un degerini alir
12    // printf("%lf", sayil);
13
14    switch(oprt)
15    {
16        case '+':
17            sonuc = sayil + sayi2;
18            break;
19        case '-':
20            sonuc = sayil - sayi2;
21            break;
22        case 'x':
23            sonuc = sayil * sayi2;
24            break;
25        case '/':
26            if(sayi2==0)
27            {
28                printf("0'a Bolum Hatali");
29                break;
30            }
31            sonuc = sayil / sayi2;
32            break;
33
34    }
35
36    printf("%lf", sonuc);
37
38 }
39

```



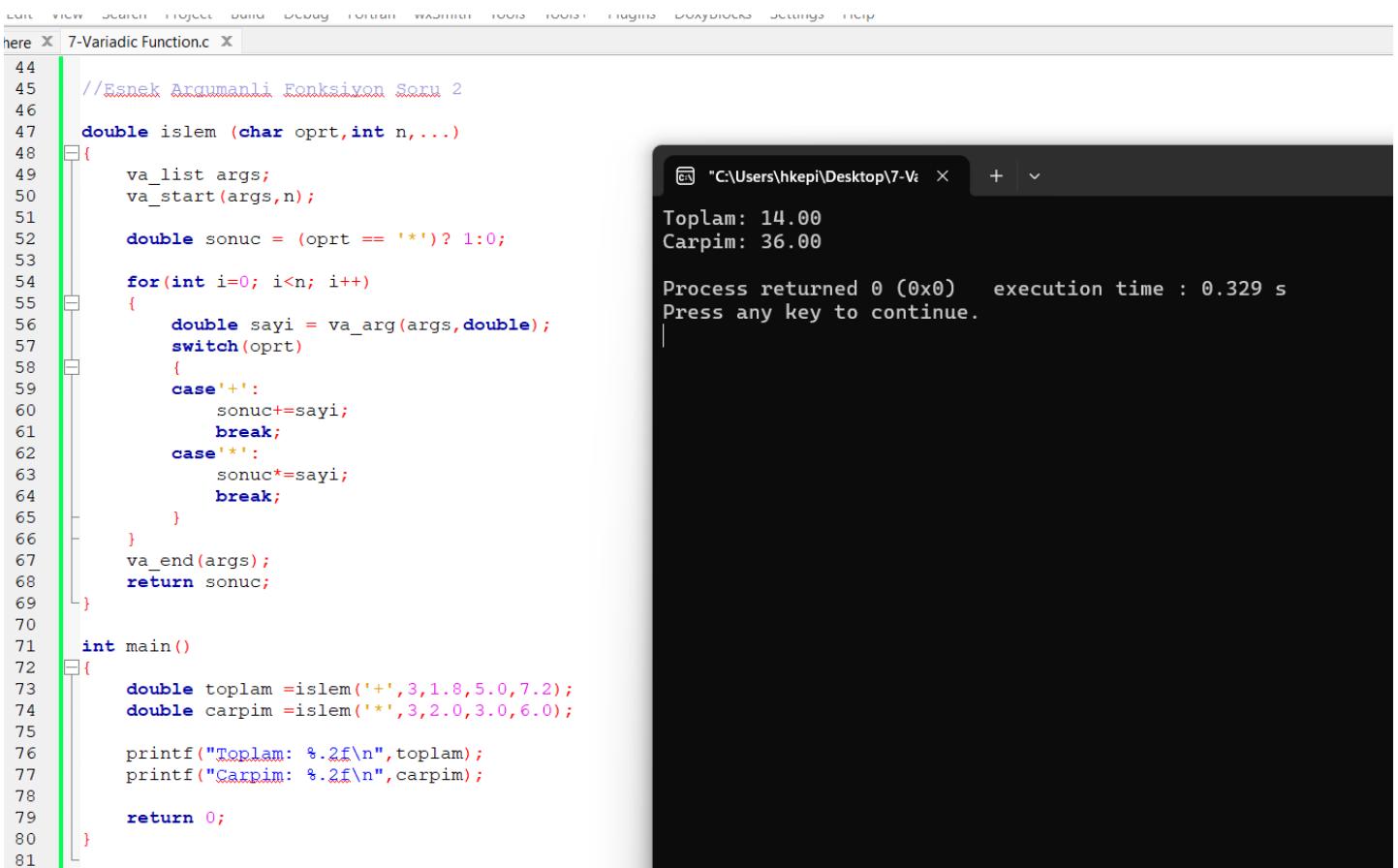
```

Microsoft Windows [Version 10.0.22631.4460]
(c) Microsoft Corporation. Tüm hakları saklıdır.

C:\Users\hkepi\Desktop> islem + 2 5
7.00000
C:\Users\hkepi\Desktop> islem - 8 4
4.00000
C:\Users\hkepi\Desktop> islem x 2 5
10.00000
C:\Users\hkepi\Desktop> islem / 10 2
5.00000
C:\Users\hkepi\Desktop>

```

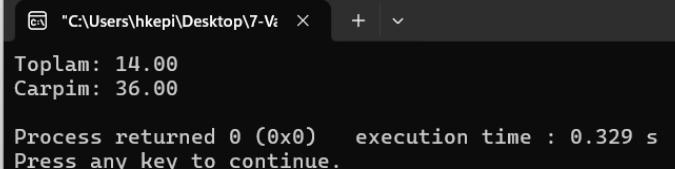
## Soru 2



```

44 //Sırek Argumanlı Fonksiyon Soru 2
45
46 double islem (char oprt,int n,...)
47 {
48     va_list args;
49     va_start(args,n);
50
51     double sonuc = (oprt == '*')? 1:0;
52
53     for(int i=0; i<n; i++)
54     {
55         double sayi = va_arg(args,double);
56         switch(oprt)
57         {
58             case '+':
59                 sonuc+=sayi;
60                 break;
61             case '*':
62                 sonuc*=sayi;
63                 break;
64         }
65     }
66     va_end(args);
67     return sonuc;
68 }
69
70 int main()
71 {
72     double toplam =islem('+',3,1.8,5.0,7.2);
73     double carpim =islem('*',3,2.0,3.0,6.0);
74
75     printf("Toplam: %.2f\n",toplam);
76     printf("Carpim: %.2f\n",carpim);
77
78     return 0;
79 }
80

```



```

Toplam: 14.00
Carpim: 36.00

Process returned 0 (0x0)   execution time : 0.329 s
Press any key to continue.
|_

```

## Soru 3

The screenshot shows a C IDE interface with two windows. The left window displays the source code for a variadic function named `karakterSayici`. The right window shows the terminal output of the program's execution.

```

here *7-Variadic Function.c
83 #include <stdio.h>
84 #include <stdarg.h>
85
86 void karakterSayici(char *metin, int kacKarakter, ...)
87 {
88     printf("Metin: %s\n", metin);
89     printf("Karakter Sayimlari\n");
90
91     va_list args;
92     va_start(args, kacKarakter);
93
94     for (int i = 0; i < kacKarakter; i++)
95     {
96         char karakter = (char) va_arg(args, int);
97         int sayac = 0;
98
99         for (int j = 0; metin[j] != '\0'; j++)
100        {
101            if (metin[j] == karakter)
102            {
103                sayac++;
104            }
105        }
106        printf("Karakter '%c': %d kez gecti.\n", karakter, sayac);
107    }
108
109    va_end(args);
110 }
111
112 int main()
113 {
114
115     char *metin1 = "\\\"Merhaba dunya!\"";
116     karakterSayici(metin1, 3, 'a', 'e', 'n');
117
118     char *metin2 = "\\\"C dilinde programlama.\"";
119     karakterSayici(metin2, 3, 'k', 'i', 'l');
120
121     char *metin3 = "Esnek Argumanlarla Calisiyoruz";
122     karakterSayici(metin3, 3, 'A', 'C', 'k');
123
124     char *metin4 = "Hilal isimli ogrencinin odevi";
125     karakterSayici(metin4, 4, 'H', 'e', 'o', 'i');
126
127     return 0;
128 }
129

```

The terminal output shows the program's execution:

```

Metin: "Merhaba dunya!"
Karakter Sayimlari
Karakter 'a': 3 kez gecti.
Karakter 'e': 1 kez gecti.
Karakter 'n': 1 kez gecti.
Metin: "C dilinde programlama."
Karakter Sayimlari
Karakter 'k': 0 kez gecti.
Karakter 'i': 2 kez gecti.
Karakter 'l': 2 kez gecti.
Metin: Esnek Argumanlarla Calisiyoruz
Karakter Sayimlari
Karakter 'A': 1 kez gecti.
Karakter 'C': 1 kez gecti.
Karakter 'k': 1 kez gecti.
Metin: Hilal isimli ogrencinin odevi
Karakter Sayimlari
Karakter 'H': 1 kez gecti.
Karakter 'e': 2 kez gecti.
Karakter 'o': 2 kez gecti.
Karakter 'i': 7 kez gecti.

Process returned 0 (0x0)   execution time : 0.348 s
Press any key to continue.
|
```