

# ZKÜ Electrical Electronics Engineering

## C Programming Laboratory Week #9

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1. Write a C program to compute the sum of the first N terms of the series  $\frac{1}{0!} + \frac{x}{1!} + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots + \frac{x^N}{N!}$  where the values of **x** and **N** are entered from the user.

2. Which is one of these pieces of code correct:

```
char *str[4]={"Ali", "Ahmet", "Mehmet", "Mahmut"};
```

or

```
char *str[4]="Veli";
```

3. What does the program given below do?

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

int f2(const char *)
{
    int x;
    for (x=0; *s != '\0'; s++) ++x;
    return x;
}

int main(void)
{
    char str[80], c;
    printf("Enter a string: "); scanf("%s", str);
    printf("The result is %d\n", f2(str));
    c = getch();
    return 0;
}
```

4. Write a C program that creates a file named "musteri.dat" and writes the account ID in 10 characters, customer name in 30 characters, and the total amount in the format of **%9.2f**. These values will be entered via keyboard. The program will continue until -1 is entered as account ID. The resulting file content should be seen as:

0	10	20	30	40	50
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+					
<b>100</b>	<b>Yalcin Isler</b>			<b>24.98</b>	
<b>101</b>	<b>Jessie James</b>			<b>324.45</b>	
<b>110</b>	<b>Rukiye Uzun</b>			<b>-8.72</b>	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+					

5. Write a C program that displays the records that have minus budgets from the file of "musteri.dat".