DOKUZ EYLUL UNIVERCITY

Faculty of Engineering

Electrical and Electronics Engineering

EED 1005 Introduction to Programming Laboratoary#9

Student Name : Yavuz BALI

Number:2014502021

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Laboratoary:

TASK 1:

```
#include<stdio.h>
#include<stdlib.h>
void fab(int *);
int main()
{
	int a[10],i,j=10;
	for(i=0;i<=9;i++){
		printf("Input %d numbers:",j);
		scanf("%d",&a[i]);
		j=j-1;
	}
	printf("a=");
	for(i=0;i<=9;i++){
		printf("%d\t",a[i]);
	}
	printf("\na=");
	fab(a);
```

```
}
void fab(int *dizi){
   int i;
        for(i=0;i<=9;i++){
        if(*dizi<1){
          *dizi=*dizi*-1;
                }
                printf("%d\t",*dizi);
                ++dizi;
                }
        }
```

```
a=2     4       0       -1      3       -5      14      21      -90     6
a=2     4       0       1       3       5       14      21      90      6
```

Figur 1: Output of laboratoary study task1

TASK 2:

```
#include<stdio.h>
#include<stdlib.h>
int COV(int [],int []);
float average(int []);
int main()
{
        int res,x[5]={2,4,6,8,10},y[5]={6,12,18,24,30};
        float cov;
        res=COV(x,y);
        cov=(float)res/4;
        printf("Covariance= %f",cov);
        system("PAUSE");
        return 0;
```

```
}
float average(int c[]){
	int i,summ=0;
	float result;
	for(i=0;i<=4;i++){
		summ=summ+c[i];
	}
	result=summ/5;
	return result;
	}
int COV(int a[],int b[]){
	int i;
	float c,z,result,sum=0;
	c=average(a);
	z=average(b);
	for(i=0;i<=4;i++){
		sum=sum+((a[i]-c)*(b[i]-z));
	}
	return sum;
}
```

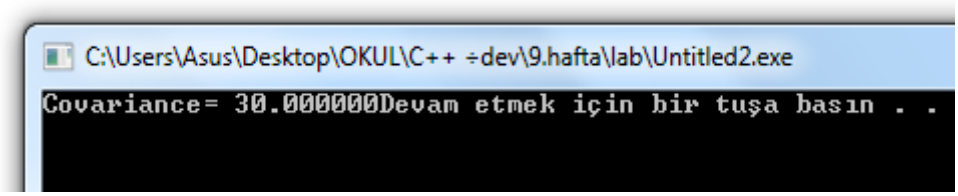

Figure2: Output of laboratoary study task 2