

2023/2024 Spring Semester

Computer Programming

Laboratory Guide

Each student at laboratory lecture should participate lecture by writing following exercises to his/her computer and getting result.

EXAMPLES

EXAMPLES 1:"if end" structure

```
x=10;
toplam=50;
a=7;

if a<=5
x=x+1;
toplam=toplam+a;
end

toplam
```

EXAMPLES 2:"if else end" structure

```
x=10;
toplam=50;
a=7;

if a<=5
x=x+1;
toplam=toplam+a;

else
x=x^2;
toplam=toplam*a;
end

toplam
```

EXAMPLES 3:"if else end" structure

```
x=10;
y=50;

if x>0
x=x*10;

if y>0
y=y*10;
end

end

y
```

EXAMPLES 4: "if else end" structure

```

say=6;
a=50;

if say>5
say=say+1;

if a==50
say=say+2;
end

if a>50
say=say+3;
end

end

say
a

```

EXAMINATION 19: enter input data from outside and assign the results

```

a=input('enter a numerical value for variable "a": ');
b=input('enter a character value for variable "b": ','s');

disp(a);

disp(b);

fprintf('value assigned to variable a = %f \n',a);
fprintf('value assigned to variable a = %5.2f \n\n',a);
fprintf('value assigned to variable a = %10.3f \n\n\n',a);
fprintf('value assigned to variable a = %15.5f \n\n',a);
fprintf('character assigned to variable b = %2.4s \n',b);
fprintf('value assigned to variable a = %-20.3f \n\n',a);
fprintf('value assigned to variable a = %+20.3f \n\n',a);
fprintf('value assigned to variable a = %020f \n\n',a);

```

Variables and Arrays

```

g=[1,3,5;2,4,6];

h=[4*2 3+2];

k=[h(2) h(1) h-1 h*2];

l=[g(1,2)*2 g(2,3)-1];

m=[1:3:12];

```

```
% first value:increment:last value  
n=[1:4]';  
o=[2:5]';  
p=[n o];
```