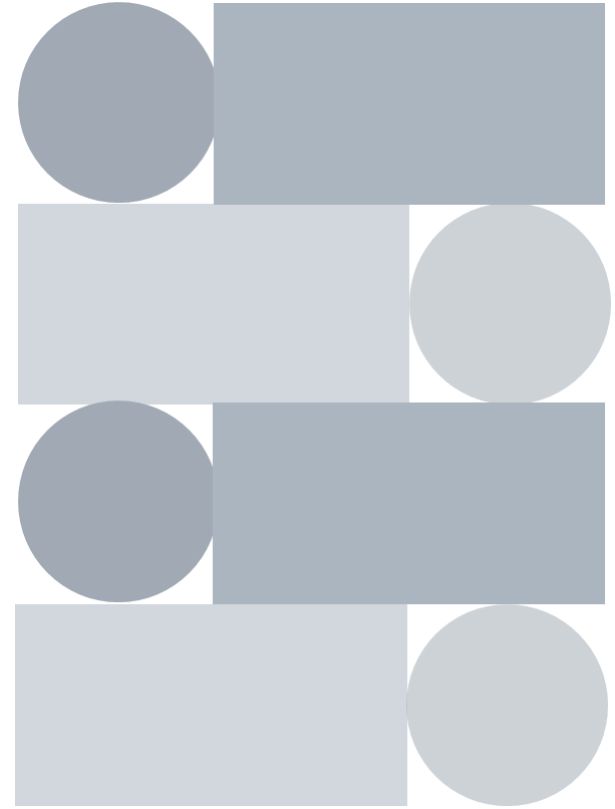
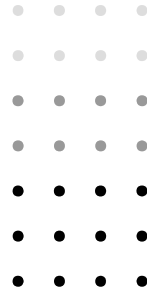


# STATISTICAL COMPUTATION

---

## WEEK 9 - INTRODUCTION

Annisa Auliya  
I Melda Puspita

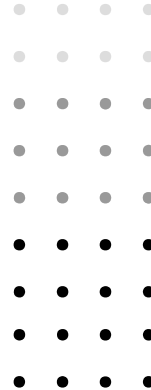




# GET TO KNOW US

ANNISA AULIYA R.

082334174749

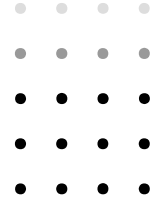


I MELDA PUSPITA L.

085257113961

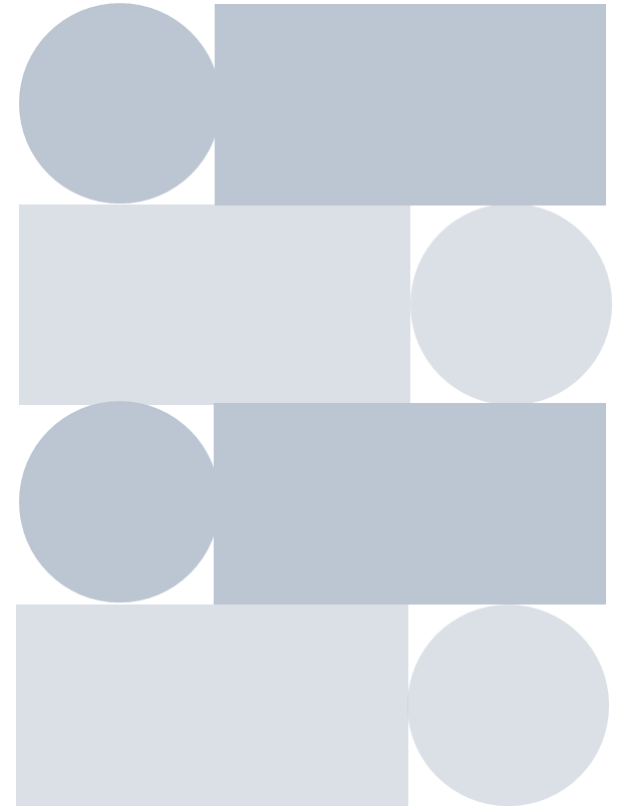
<https://intip.in/KomstatC2023>

# MATERIALS



## Macro Minitab

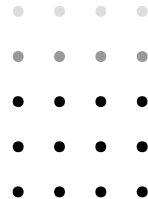
- Introduction
- Mathematical Operation
- Conditional Statement & Looping



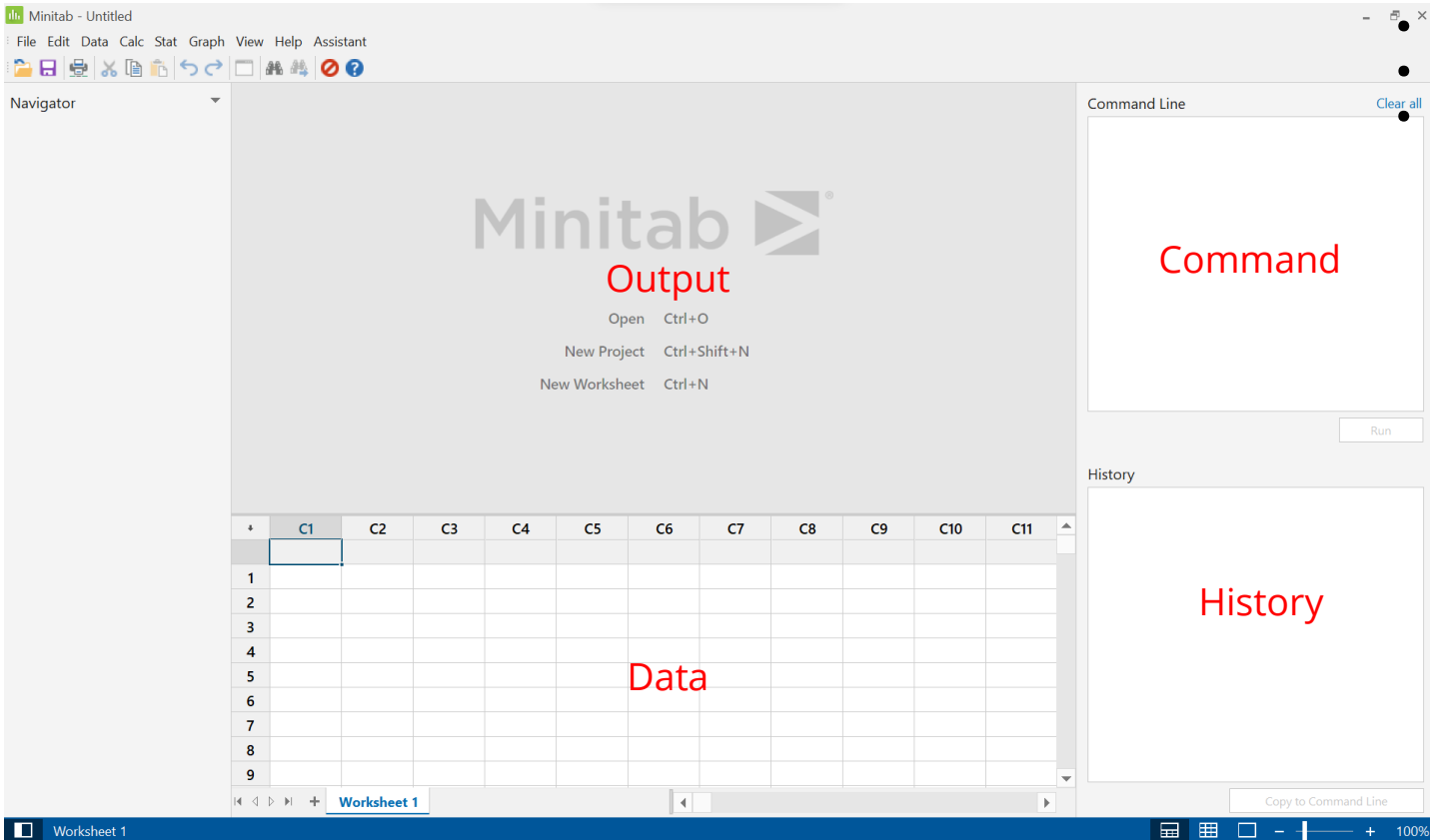
01

# INTRODUCTION

---

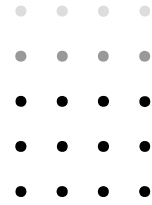


# INTERFACE



The screenshot displays the Minitab software interface. The main window is titled "Minitab - Untitled". The menu bar includes File, Edit, Data, Calc, Stat, Graph, View, Help, and Assistant. The toolbar contains icons for opening files, saving, printing, and other standard functions. The Navigator pane on the left shows a tree view of the project structure. The central workspace displays the Minitab logo and the word "Output" in red. Below the logo, there are keyboard shortcuts for Open (Ctrl+O), New Project (Ctrl+Shift+N), and New Worksheet (Ctrl+N). The bottom of the workspace shows a worksheet grid with columns labeled C1 through C11 and rows numbered 1 through 9. The word "Data" is written in red in the center of the grid. On the right side, there are two panels: the Command Line panel, which is empty and has a "Clear all" button, and the History panel, which is also empty. A "Run" button is located between the two panels. At the bottom right, there is a "Copy to Command Line" button. The status bar at the bottom shows "Worksheet 1" and a zoom level of 100%.

# STRUCTURE

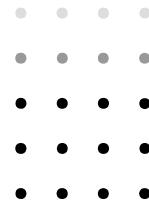


- Global Macro

```
GMACRO  
Template  
Body of the macro  
ENDMACRO
```

- Local Macro

```
MACRO  
Template  
Declaration statement  
Body of the macro  
ENDMACRO
```



# EXECUTE

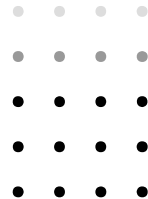
Eksekusi	Ekstensi file	Disimpan pada
%ANALYZE	MAC	Subdirektori macros pada Minitab
%ANALYZE.TXT	bukan MAC	Subdirektori macros pada Minitab
%c:\SALES\ANALYZE	MAC	C:\SALES
%c:\SALES\ANALYZE.TXT	Bukan MAC	C:\SALES
%'nama file.MAC' %'c:\ANALYZE 1.TXT'	Jika pada nama file terdapat spasi	

# 02

# MATH OPERATIONS

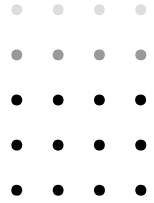
---

Install, Load, Help





# ARITHMETIC OPERATIONS



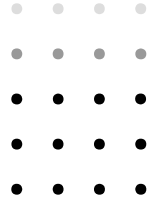
Math Notation	Mtb	Example
+	+	$5+2 = 7$
-	-	$5-2 = 3$
x	*	$5*1 = 5$
:	/	$5/2 = 2/5$
$\sqrt{\quad}$	sqrt()	$\text{sqrt}(4) = 2$
$x^n$	$x^n$	$2^2 = 4$

# MATRIX OPERATOR



Mtb	Definition
Add	Addition of each matrix element
Subt	Subtraction of each matrix element
Mult	Matrix multiplication
Invert	Inverse
Transpose	Transpose

# LOGICAL FUNCTION

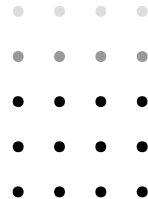


=	atau	EQ	Sama dengan
$\sim$ =	atau	NE	Tidak sama dengan
<	atau	LT	Kurang dari
>	atau	GT	Lebih dari
$\leq$	atau	LE	Kurang dari atau sama dengan
$\geq$	atau	GE	Lebih dari atau sama dengan
&	atau	AND	
	atau	OR	
$\sim$	atau	NOT	

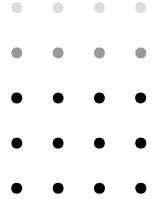
# 03

## CONDITIONAL STATEMENT & LOOPING

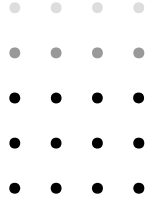
---



# COMMAND



- statemen IF : tindakan dilakukan hanya jika beberapa kondisi adalah benar atau salah
- loop DO-ENDDO : suatu tindakan dilakukan selama suatu bilangan tertentu
- WHILE-ENDWHILE : mengulang blok command selama suatu kondisi benar
- CALL dan RETURN : memulai macro yang lain dari suatu macro



# COMMAND

- DO-ENDDO

```
DO          K = suatu bilangan  
            (blok commands minitab dan statement macro)  
ENDDO
```

- WHILE-ENDWHILE

```
WHILE      ekspresi logika  
            (blok commands minitab dan statement macro)  
ENDWHILE
```

- GOTO-MLABEL

```
GOTO      number  
            (commands minitab dan statement macro lainnya)  
MLABEL    number
```



# THANKS

---

<https://intip.in/KomstatC2023>

