````
---
output:
  html_document:
    df_print: paged
  pdf_document: default
---

# STATISTIKA NONPARAMETRIK

## PRAKTIKUM TM-4

1.  ***SIGN TEST***

```{r}
#SOAL 1
Oks= c(1.5, 2.2, 0.9, 1.3, 2.0,1.6, 1.8, 1.5, 2.0, 1.2, 1.7)

library(BSDA)
SIGN.test(Oks, md = 1.8, alternative = "two.sided")
```

```{r}
#SOAL 2
library(BSDA)

ban_jenis_1 = c(4.2, 4.7, 6.6, 7, 6.7, 4.5, 5.7, 6, 7.4, 4.9, 6.1, 5.2, 5.7, 6.9, 6.8,
4.9)
ban_jenis_2 = c(4.1, 4.9, 6.2, 6.9, 6.8, 4.4, 5.7, 5.8, 6.9, 4.9, 6, 4.9, 5.3, 6.5, 7.1,
4.8)

hasil_st_ban = SIGN.test(ban_jenis_1, ban_jenis_2, alternative=  "less")

print(hasil_st_ban)
```

2.  ***WILCOXON TEST***

```{r}
wilcox.test(Oks, mu = 1.8, alternative = "two.sided")
```

3.  ***BINOMIAL TEST***

```{r}
binom.test(x=8, n=20, p=1/2)
```

4.  ***CHI-SQUARE***

```{r}
zodiac_signs <- c("Aries", "Taurus", "Libra", "Gemini", "Cancer", "Leo", "Virgo",
"Scorpio", "Sagittarius", "Capricorn", "Aquarius", "Pisces")
respondent_counts<- c(29, 24, 22, 19, 21, 18, 19, 20, 23, 18, 20, 23)

n <- sum(respondent_counts)
expected_counts <- rep(n/length(respondent_counts), length(respondent_counts)) / n

chisq_result <- chisq.test(respondent_counts, p = expected_counts)
chisq_result
```

5.  ***KOLMOGOROV SMIRNOV***

```{r}
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```