A

Nama: Ali Rahmad Saputra

Prodi : Sistem Informasi Tugas: PBO PRA - UAS

Tugas!

## Kerjakan:

NIM : 10201009

1. Kreasikan Fitur/Modul/Desain pada Text Editor yang telah diberikan!!!

Jawab

## A. Source Code

```
import tkinter as tk
from tkinter import *
from tkinter.simpledialog import *
from tkinter import filedialog
from tkinter import messagebox
class Menubar:
   def __init__(self, parent):
        font specs = ("windows", 13)
        menubar = tk.Menu(parent.master, font=font specs)
        parent.master.config(menu=menubar)
        file_dropdown = tk.Menu(menubar, font=font_specs, tearoff=0)
        file_dropdown.add_command(label="New File",
                                  accelerator="Ctrl+N",
                                  command=parent.new_file)
        file_dropdown.add_command(label="Open File",
                                  accelerator="Ctrl+0",
                                  command=parent.open_file)
        file_dropdown.add_command(label="Save",
                                  accelerator="Ctrl+S",
                                  command=parent.save)
        file dropdown.add command(label="Save As",
                                  accelerator="Ctrl+Shift+S",
                                  command=parent.save_as)
        file dropdown.add separator()
        file_dropdown.add_command(label="Exit",
                                  command=parent.master.destroy)
        edit_dropdown = tk.Menu(menubar, font=font_specs, tearoff=0)
        edit dropdown.add_command(label="Cut",
                                  accelerator="Ctrl+X",
                                  command=parent.cut)
```

```
edit dropdown.add_command(label="Copy",
                                  accelerator="Ctrl+C",
                                  command=parent.copy)
        edit_dropdown.add_command(label="Paste",
                                  accelerator="Ctrl+V",
                                  command=parent.paste)
        edit dropdown.add_command(label="Undo",
                                  command=parent.undo)
        edit dropdown.add_command(label="Redo",
                                  command=parent.redo)
        about_dropdown = tk.Menu(menubar, font=font_specs, tearoff=0)
        about dropdown.add command(label="Release Notes",
                                    command=self.show release notes)
        about dropdown.add_separator()
        about_dropdown.add_command(label="About",
                                    command=self.show_about_message)
        menubar.add_cascade(label="File", menu=file_dropdown)
        menubar.add_cascade(label="Edit", menu=edit_dropdown)
        menubar.add_cascade(label="About", menu=about_dropdown)
   def show about message(self):
        box title = "About PyText"
        box_message = "Mini Text Editor by PBO A"
        messagebox.showinfo(box_title, box_message)
   def show_release_notes(self):
        box_title = "Release Notes"
        box_message = "Version 1.0 Ali Rahmad Saputra's Text Editor"
       messagebox.showinfo(box title, box message)
class Statusbar:
   def __init__(self, parent):
        font_specs = ("windows", 12)
        self.status = tk.StringVar()
        self.status.set("PyText - 1.0 Ali Rahmad Saputra's Text Editor")
        label = tk.Label(parent.textarea, textvariable=self.status, fg="black",
                        bg="lightgrey", anchor='sw', font=font_specs)
        label.pack(side=tk.BOTTOM, fill=tk.BOTH)
   def update_status(self, *args):
        if isinstance(args[0], bool):
            self.status.set("File Anda berhasil disimpan!")
        else:
            self.status.set("PyText - 1.0 Ali Rahmad Saputra's Text Editor")
```

```
class PyText:
   def __init__(self, master,):
        master.title("Untitled Document - PyText")
        master.geometry("960x540")
        font_specs = ("calibri", 12)
        self.master = master
        self.filename = None
        self.clipboard = None
        self.textarea = tk.Text(master, font=font specs)
        self.scroll = tk.Scrollbar(master, command=self.textarea.yview)
        self.textarea.configure(yscrollcommand=self.scroll.set)
        self.textarea.pack(side=tk.LEFT, fill=tk.BOTH, expand=True)
        self.scroll.pack(side=tk.RIGHT, fill=tk.Y)
        self.menubar = Menubar(self)
        self.statusbar = Statusbar(self)
        self.bind_shortcuts()
   def set window title(self, name=None):
        if name:
            self.master.title(name + " - PyText")
        else:
            self.master.title("Untitled - PyText")
   def new_file(self, *args):
        self.textarea.delete(1.0, tk.END)
        self.filename = None
        self.set_window_title()
   def open_file(self, *args):
        self.filename = filedialog.askopenfilename(
            defaultextension=".txt",
            filetypes=[("All Files", "*.*"),
                        ("Text Files", "*.txt"),
                        ("Python Scripts", "*.py"),
                        ("Markdown Document", "*.md"),
                        ("JavaScript Files", "*.js"),
                        ("HTML Documents", "*.html"),
                        ("CSS Documents", "*.css")])
        if self.filename:
            self.textarea.delete(1.0, tk.END)
            with open(self.filename, "r") as f:
                self.textarea.insert(1.0, f.read())
            self.set window title(self.filename)
```

```
def save(self, *args):
    if self.filename:
        try:
            textarea_content = self.textarea.get(1.0, tk.END)
            with open(self.filename, "w") as f:
                f.write(textarea content)
            self.statusbar.update_status(True)
        except Exception as e:
            print(e)
    else:
        self.save_as()
def save_as(self, *args):
        try:
            new_file = filedialog.asksaveasfilename(
                initialfile="Untitled.txt".
                defaultextension=".txt",
                filetypes=[("All Files", "*.*"),
                            ("Text Files", "*.txt"),
                            ("Python Scripts", "*.py"),
                            ("Markdown Document", "*.md"),
                            ("JavaScript Files", "*.js"),
                            ("HTML Documents", "*.html"),
                            ("CSS Documents", "*.css")])
            textarea_content = self.textarea.get(1.0, tk.END)
            with open(new_file, "w") as f:
                f.write(textarea content)
                self.filename = new file
                self.set window title(self.filename)
                self.statusbar.update_status(True)
        except Exception as e:
                print(e)
def bind_shortcuts(self):
        self.textarea.bind('<Control-n>', self.new_file)
        self.textarea.bind('<Control-o>', self.open_file)
        self.textarea.bind('<Control-s>', self.save)
        self.textarea.bind('<Control-S>', self.save_as)
        self.textarea.bind('<Key>', self.statusbar.update_status)
def cut(self, *args):
        SEL = self.textarea.selection_get()
        self.clipboard = SEL
        self.textarea.delete(SEL_FIRST, SEL_LAST)
        self.textarea.bind('Control-x', self.cut)
def copy(self, *args):
        SEL = self.textarea.selection_get()
        self.clipboard = SEL
```

## B. Output

