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Tugas!

Kerjakan:

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

Jawab

1. 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+O",

                                  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

            self.textarea.**bind**('Control-c', self.**copy**)

    def **paste**(self, \*args):

            SEL = self.textarea.**insert**(INSERT, self.clipboard)

            self.textarea.**bind**('Control-v', self.**paste**)

    def **undo**(self, \*args):

            self.textarea.**edit\_undo**()

    def **redo**(self, \*args):

            self.textarea.**edit\_redo**()

if \_\_name\_\_ == "\_\_main\_\_":

    master = **tk**.**Tk**()

    pt = **PyText**(master)

    master.mainloop()

1. Output

