Om Pawaskar

S22 96

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| **from** tkinter **import** **\***  window **=** Tk()  window**.**geometry("600x400")  window**.**configure(**background=**"#9ef3f7")  hello\_user **=** Label(window**,text=**"Welcome To Login Form"**,**  **font=**("Impact"**,**20)**,background=**"#9ef3f7")  hello\_user**.**place(**x=**30**,** **y=**50)  exp\_username **=** "Om Pawaskar"  exp\_password **=** "123"  *# creating label*  username **=** Label(window**,** **text=**"Username"**,background=**"#9ef3f7")  username**.**place(**x=**30**,** **y=**120)  password **=** Label(window**,** **text=**"Password"**,background=**"#9ef3f7")  password**.**place(**x=**30**,** **y=**180)  entry\_box **=** Entry(window**,** **width=**20)  entry\_box**.**place(**x=**100**,** **y=**120)  entry\_box2 **=** Entry(window**,** **width=**20)  entry\_box2**.**place(**x=**100**,** **y=**180)  result **=** Label(window**,** **text=**""**,background=**"#9ef3f7")  result**.**place(**x=**30**,** **y=**300)  **def** submit()**:**  **if** entry\_box**.**get() **==** exp\_username **and** entry\_box2**.**get() **==** exp\_password**:**          result**.**configure(**text=**"Login Success"**,** **font=**("Impact"**,** 20))  **else:**          result**.**configure(**text=**"Login Failed, Invalid Credentials"**,**  **font=**("Impact"**,** 20))  submit\_button **=** Button(window**,** **text=**"Submit"**,** **command=**submit**,**  **background=**"#8caee6")  submit\_button**.**place(**x=**30**,** **y=**250)  window**.**mainloop() |

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| from tkinter import \* | | | | | | | | | | |
| import math | | | | | | | | | | |
| import tkinter.messagebox | | | | | | | | | | |
|  | | | | | | | | | | |
| root = Tk() | | | | | | | | | | |
| root.title("Scientific Calculator") | | | | | | | | | | |
| root.configure(background='white') | | | | | | | | | | |
| root.resizable(width=False, height=False) | | | | | | | | | | |
| root.geometry("480x568+455+90") | | | | | | | | | | |
| calc = Frame(root) | | | | | | | | | | |
| calc.grid() | | | | | | | | | | |
|  | | | | | | | | | | |
| class Calc: |  | | | | | | | | | |
| def \_\_init\_\_(self): | | | |  | | | | | | |
| self.total = 0 | | |  | | | | | | | |
| self.current = '' | | | | |  | | | | | |
| self.input\_value = True | | | | | | | | |  | |
| self.check\_sum = False | | | | | | | |  | | |
| self.op = '' | |  | | | | | | | | |
| self.result = False | | | | | |  | | | | |
|  | | | | | | | | | | |
| def numberEnter(self, num): | | | | | | | | |  | |
| self.result = False | | | | | |  | | | | |
| firstnum = txtDisplay.get() | | | | | | | | | |  |
| secondnum = str(num) | | | | | | |  | | | |
| if self.input\_value: | | | | | | | | | | |
| self.current = secondnum | | | | | | | | | | |

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| self.input\_value = False | | | | | |
| else: | | | | | |
| if secondnum == '.': | | | | | |
| if secondnum in firstnum: | | | | | |
| return | | | | | |
| self.current = firstnum + secondnum | | | | | |
| self.display(self.current) | | | | | |
|  | | | | | |
| def sum\_of\_total(self): | | | | | |
| self.result = True | | | | | |
| self.current = float(self.current) | | | | | |
| if self.check\_sum: | | | | | |
| self.valid\_function() | | | | | |
| else: | | | | | |
| self.total = float(txtDisplay.get()) | | | | | |
|  | | | | | |
| def display(self, value): | | | | | |
| txtDisplay.delete(0, END) | | | | | |
| txtDisplay.insert(0, value) | | | | | |
| def valid\_function(self): | |  | | | |
| if self.op == "add": |  | | | | |
| self.total += self.current | | | | |  |
| if self.op == "sub": |  | | | | |
| self.total -= self.current | | | | |  |
| if self.op == "multi": | | |  | | |
| self.total \*= self.current | | | | |  |
| if self.op == "divide": | | | |  | |
| self.total /= self.current | | | | |  |
| if self.op == "mod": |  | | | | |
| self.total %= self.current | | | | |  |
| self.input\_value = True | | | |  | |
| self.check\_sum = False | | |  | | |
| self.display(self.total) | | | | | |
|  | | | | | |
| def operation(self, op): | | | | | |
| self.current = float(self.current) | | | | | |
| if self.check\_sum: | | | | | |
| self.valid\_function() | | | | | |
| elif not self.result: | | | | | |
| self.total = self.current | | | | | |
| self.input\_value = True | | | | | |
| self.check\_sum = True | | | | | |
| self.op = op | | | | | |
| self.result = False | | | | | |
|  | | | | | |
| def Clear\_Entry(self): | | | | | |
| self.result = False | | | | | |
| self.current = "0" | | | | | |
| self.display(0) | | | | | |
| self.input\_value = True | | | | | |
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| def All\_Clear\_Entry(self): | | | | | |

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| self.Clear\_Entry() | | | | | | | |
| self.total = 0 | | | | | | | |
|  | | | | | | | |
| def pi(self): | | | | | | | |
| self.result = False | | | | | | | |
| self.current = math.pi | | | | | | | |
| self.display(self.current) | | | | | | | |
|  | | | | | | | |
| def tau(self): | | | | | | | |
| self.result = False | | | | | | | |
| self.current = math.tau | | | | | | | |
| self.display(self.current) | | | | | | | |
|  | | | | | | | |
| def e(self): | | | | | | | |
| self.result = False | | | | | | | |
| self.current = math.e | | | | | | | |
| self.display(self.current) | | | | | | | |
|  | | | | | | | |
| def mathPM(self):  self.result = False | | | | | | | |
| self.current = -(float(txtDisplay.get())) | | | | |  | | |
| self.display(self.current) | | | |  | | | |
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| def squared(self): | |  | | | | | |
| self.result = False | | |  | | | | |
| self.current = math.sqrt(float(txtDisplay.get())) | | | | | |  | |
| self.display(self.current) | | | |  | | | |
|  | | | | | | | |
| def cos(self): |  | | | | | | |
| self.result = False | | |  | | | | |
| self.current = math.cos(math.radians(float(txtDisplay.get()))) | | | | | | |  |
| self.display(self.current) | | | |  | | | |
|  | | | | | | | |
| def cosh(self): | | | | | | | |
| self.result = False | | | | | | | |
| self.current = math.cosh(math.radians(float(txtDisplay.get()))) | | | | | | | |
| self.display(self.current) | | | | | | | |
|  | | | | | | | |
| def tan(self): | | | | | | | |
| self.result = False | | | | | | | |
| self.current = math.tan(math.radians(float(txtDisplay.get()))) | | | | | | | |
| self.display(self.current) | | | | | | | |
|  | | | | | | | |
| def tanh(self): | | | | | | | |
| self.result = False | | | | | | | |
| self.current = math.tanh(math.radians(float(txtDisplay.get()))) | | | | | | | |
| self.display(self.current) | | | | | | | |
|  | | | | | | | |
| def sin(self): | | | | | | | |
| self.result = False | | | | | | | |
| self.current = math.sin(math.radians(float(txtDisplay.get()))) | | | | | | | |
| self.display(self.current) | | | | | | | |
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| def sinh(self): | | | | | | |
| self.result = False | | | | | | |
| self.current = math.sinh(math.radians(float(txtDisplay.get()))) | | | | | | |
| self.display(self.current) | | | | | | |
|  | | | | | | |
| def log(self): | | | | | | |
| self.result = False | | | | | | |
| self.current = math.log(float(txtDisplay.get())) | | | | | | |
| self.display(self.current) | | | | | | |
|  | | | | | | |
| def exp(self): | | | | | | |
| self.result = False | | | | | | |
| self.current = math.exp(float(txtDisplay.get())) | | | | | | |
| self.display(self.current) | | | | | | |
|  | | | | | | |
| def acosh(self): | | | | | | |
| self.result = False | | | | | | |
| self.current = math.acosh(float(txtDisplay.get())) | | | | | | |
| self.display(self.current) | | | | | | |
| def asinh(self): |  | | | | | |
| self.result = False | | |  | | | |
| self.current = math.asinh(float(txtDisplay.get())) | | | | |  | |
| self.display(self.current) | | | |  | | |
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| def expm1(self): |  | | | | | |
| self.result = False | | |  | | | |
| self.current = math.expm1(float(txtDisplay.get())) | | | | |  | |
| self.display(self.current) | | | |  | | |
|  | | | | | | |
| def lgamma(self): | |  | | | | |
| self.result = False | | |  | | | |
| self.current = math.lgamma(float(txtDisplay.get())) | | | | | |  |
| self.display(self.current) | | | | | | |
|  | | | | | | |
| def degrees(self): | | | | | | |
| self.result = False | | | | | | |
| self.current = math.degrees(float(txtDisplay.get())) | | | | | | |
| self.display(self.current) | | | | | | |
|  | | | | | | |
| def log2(self): | | | | | | |
| self.result = False | | | | | | |
| self.current = math.log2(float(txtDisplay.get())) | | | | | | |
| self.display(self.current) | | | | | | |
|  | | | | | | |
| def log10(self): | | | | | | |
| self.result = False | | | | | | |
| self.current = math.log10(float(txtDisplay.get())) | | | | | | |
| self.display(self.current) | | | | | | |
|  | | | | | | |
| def log1p(self): | | | | | | |
| self.result = False | | | | | | |
| self.current = math.log1p(float(txtDisplay.get())) | | | | | | |

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| self.display(self.current) | | | | | | | | | | |
|  | | | | | | | | | | |
| added\_value = Calc() | | | | | | | | | | |
|  | | | | | | | | | | |
| txtDisplay = Entry(calc, font=('Helvetica', 20, 'bold'), | | | | | | | | | | |
| bg='black', fg='white', | | | | | | | | | | |
| bd=30, width=28, justify=RIGHT) | | | | | | | | | | |
| txtDisplay.grid(row=0, column=0, columnspan=4, pady=1) | | | | | | | | | | |
| txtDisplay.insert(0, "0") | | | | | | | | | | |
|  | | | | | | | | | | |
| numberpad = "789456123" | | | | | | | | | | |
| i = 0 | | | | | | | | | | |
| btn = [] | | | | | | | | | | |
| for j in range(2, 5): | | | | | | | | | | |
| for k in range(3): | | | | | | | | | | |
| btn.append(Button(calc, width=6, height=2, | | | | | | | | | | |
| bg='black', fg='white', | | | | | | | | | | |
| font=('Helvetica', 20, 'bold'), bd=4, text=numberpad[i])) | | | | | | | | | | |
| btn[i].grid(row=j, column=k, pady=1) | | | | | | | |  | | |
| btn[i]["command"] = lambda x=numberpad[i]: added\_value.numberEnter(x) | | | | | | | | | |  |
| i += 1 |  | | | | | | | | | |
|  |
|  | | | | | | | | | | |
| Button(calc, text=chr(67), width=6, | | | | |  | | | | | |
| height=2, bg='powder blue', | | | |  | | | | | | |
| font=('Helvetica', 20, 'bold') | | | | | |  | | | | |
| , bd=4, command=added\_value.Clear\_Entry | | | | | | | | |  | |
| ).grid(row=1, column=0, pady=1) | | | | | | |  | | | |
|  | | | | | | | | | | |
| Button(calc, text=chr(67) + chr(69), | | | | | |  | | | | |
| width=6, height=2, | | |  | | | | | | | |
| bg='powder blue', | |  | | | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | | | | | |
| bd=4, | | | | | | | | | | |
| command=added\_value.All\_Clear\_Entry | | | | | | | | | | |
| ).grid(row=1, column=1, pady=1) | | | | | | | | | | |
|  | | | | | | | | | | |
| Button(calc, text="\u221A", width=6, height=2, | | | | | | | | | | |
| bg='powder blue', font=('Helvetica', | | | | | | | | | | |
| 20, 'bold'), | | | | | | | | | | |
| bd=4, command=added\_value.squared | | | | | | | | | | |
| ).grid(row=1, column=2, pady=1) | | | | | | | | | | |
|  | | | | | | | | | | |
| Button(calc, text="+", width=6, height=2, | | | | | | | | | | |
| bg='powder blue', | | | | | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | | | | | |
| bd=4, command=lambda: added\_value.operation("add") | | | | | | | | | | |
| ).grid(row=1, column=3, pady=1) | | | | | | | | | | |
|  | | | | | | | | | | |
| Button(calc, text="-", width=6, | | | | | | | | | | |
| height=2, bg='powder blue', | | | | | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | | | | | |

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| bd=4, command=lambda: added\_value.operation("sub") | | | | | | | |
| ).grid(row=2, column=3, pady=1) | | | | | | | |
|  | | | | | | | |
| Button(calc, text="x", width=6, | | | | | | | |
| height=2, bg='powder blue', | | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | | |
| bd=4, command=lambda: added\_value.operation("multi") | | | | | | | |
| ).grid(row=3, column=3, pady=1) | | | | | | | |
|  | | | | | | | |
| Button(calc, text="/", width=6, | | | | | | | |
| height=2, bg='powder blue', | | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | | |
| bd=4, command=lambda: added\_value.operation("divide") | | | | | | | |
| ).grid(row=4, column=3, pady=1) | | | | | | | |
|  | | | | | | | |
| Button(calc, text="0", width=6, | | | | | | | |
| height=2, bg='black', fg='white', | | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | | |
| bd=4, command=lambda: added\_value.numberEnter(0)  ).grid(row=5, column=0, pady=1) | | | | | | | |
|  | | | | | | | |
| Button(calc, text=".", width=6, |  | | | | | | |
| height=2, bg='powder blue', | |  | | | | | |
| font=('Helvetica', 20, 'bold'), | | | |  | | | |
| bd=4, command=lambda: added\_value.numberEnter(".") | | | | | |  | |
| ).grid(row=5, column=1, pady=1) | | | |  | | | |
|  | | | | | | | |
| Button(calc, text=chr(177), width=6, | | |  | | | | |
| height=2, bg='powder blue', font=('Helvetica', 20, 'bold'), | | | | | | |  |
| bd=4, command=added\_value.mathPM | | | | |  | | |
| ).grid(row=5, column=2, pady=1) | | | |  | | | |
|  | | | | | | | |
| Button(calc, text="=", width=6, |  | | | | | | |
| height=2, bg='powder blue', | | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | | |
| bd=4, command=added\_value.sum\_of\_total | | | | | | | |
| ).grid(row=5, column=3, pady=1) | | | | | | | |
|  | | | | | | | |
| # ROW 1 : | | | | | | | |
| Button(calc, text="pi", width=6, | | | | | | | |
| height=2, bg='black', fg='white', | | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | | |
| bd=4, command=added\_value.pi | | | | | | | |
| ).grid(row=1, column=4, pady=1) | | | | | | | |
|  | | | | | | | |
| Button(calc, text="Cos", width=6, | | | | | | | |
| height=2, bg='black', fg='white', | | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | | |
| bd=4, command=added\_value.cos | | | | | | | |
| ).grid(row=1, column=5, pady=1) | | | | | | | |
|  | | | | | | | |
| Button(calc, text="tan", width=6, | | | | | | | |
| height=2, bg='black', fg='white', | | | | | | | |

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| font=('Helvetica', 20, 'bold'), | | | | |
| bd=4, command=added\_value.tan | | | | |
| ).grid(row=1, column=6, pady=1) | | | | |
|  | | | | |
| Button(calc, text="sin", width=6, | | | | |
| height=2, bg='black', fg='white', | | | | |
| font=('Helvetica', 20, 'bold'), | | | | |
| bd=4, command=added\_value.sin | | | | |
| ).grid(row=1, column=7, pady=1) | | | | |
|  | | | | |
| # ROW 2 : | | | | |
| Button(calc, text="2pi", width=6, | | | | |
| height=2, bg='black', fg='white', | | | | |
| font=('Helvetica', 20, 'bold'), | | | | |
| bd=4, command=added\_value.tau | | | | |
| ).grid(row=2, column=4, pady=1) | | | | |
|  | | | | |
| Button(calc, text="Cosh", width=6, | | | | |
| height=2, bg='black', fg='white', font=('Helvetica', 20, 'bold'), | | | | |
| bd=4, command=added\_value.cosh | |  | | |
| ).grid(row=2, column=5, pady=1) | | |  | |
|  | | |
|  | | | | |
| Button(calc, text="tanh", width=6, |  | | | |
| height=2, bg='black', fg='white', | | | |  |
| font=('Helvetica', 20, 'bold'), | | |  | |
| bd=4, command=added\_value.tanh | |  | | |
| ).grid(row=2, column=6, pady=1) | | |  | |
|  | | | | |
| Button(calc, text="sinh", width=6, |  | | | |
| height=2, bg='black', fg='white', | | | |  |
| font=('Helvetica', 20, 'bold'), | | |  | |
| bd=4, command=added\_value.sinh | |  | | |
| ).grid(row=2, column=7, pady=1) | | | | |
|  | | | | |
| # ROW 3 : | | | | |
| Button(calc, text="log", width=6, | | | | |
| height=2, bg='black', fg='white', | | | | |
| font=('Helvetica', 20, 'bold'), | | | | |
| bd=4, command=added\_value.log | | | | |
| ).grid(row=3, column=4, pady=1) | | | | |
|  | | | | |
| Button(calc, text="exp", width=6, height=2, | | | | |
| bg='black', fg='white', | | | | |
| font=('Helvetica', 20, 'bold'), | | | | |
| bd=4, command=added\_value.exp | | | | |
| ).grid(row=3, column=5, pady=1) | | | | |
|  | | | | |
| Button(calc, text="Mod", width=6, | | | | |
| height=2, bg='black', fg='white', | | | | |
| font=('Helvetica', 20, 'bold'), | | | | |
| bd=4, command=lambda: added\_value.operation("mod") | | | | |
| ).grid(row=3, column=6, pady=1) | | | | |

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| Button(calc, text="e", width=6, | | | | | | |
| height=2, bg='black', fg='white', | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | |
| bd=4, command=added\_value.e | | | | | | |
| ).grid(row=3, column=7, pady=1) | | | | | | |
|  | | | | | | |
| # ROW 4 : | | | | | | |
| Button(calc, text="log10", width=6, | | | | | | |
| height=2, bg='black', fg='white', | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | |
| bd=4, command=added\_value.log10 | | | | | | |
| ).grid(row=4, column=4, pady=1) | | | | | | |
|  | | | | | | |
| Button(calc, text="log1p", width=6, | | | | | | |
| height=2, bg='black', fg='white', | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | |
| bd=4, command=added\_value.log1p | | | | | | |
| ).grid(row=4, column=5, pady=1) | | | | | | |
| Button(calc, text="expm1", width=6, | | |  | | | |
| height=2, bg='black', fg='white', | | | | | |  |
| font=('Helvetica', 20, 'bold'), | | | |  | | |
| bd=4, command=added\_value.expm1 | | | |  | | |
| ).grid(row=4, column=6, pady=1) | | | |  | | |
|  | | | |
|  | | | | | | |
| Button(calc, text="gamma", width=6, | | |  | | | |
| height=2, bg='black', fg='white', | | | | | |  |
| font=('Helvetica', 20, 'bold'), | | | |  | | |
| bd=4, command=added\_value.lgamma | | | | |  | |
| ).grid(row=4, column=7, pady=1) | | | |  | | |
| # ROW 5 : |  | | | | | |
| Button(calc, text="log2", width=6, | |  | | | | |
| height=2, bg='black', fg='white', | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | |
| bd=4, command=added\_value.log2 | | | | | | |
| ).grid(row=5, column=4, pady=1) | | | | | | |
|  | | | | | | |
| Button(calc, text="deg", width=6, | | | | | | |
| height=2, bg='black', fg='white', | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | |
| bd=4, command=added\_value.degrees | | | | | | |
| ).grid(row=5, column=5, pady=1) | | | | | | |
|  | | | | | | |
| Button(calc, text="acosh", width=6, | | | | | | |
| height=2, bg='black', fg='white', | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | |
| bd=4, command=added\_value.acosh | | | | | | |
| ).grid(row=5, column=6, pady=1) | | | | | | |
|  | | | | | | |
| Button(calc, text="asinh", width=6, | | | | | | |
| height=2, bg='black', fg='white', | | | | | | |
| font=('Helvetica', 20, 'bold'), | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| bd=4, command=added\_value.asinh | | | | | | | |
| ).grid(row=5, column=7, pady=1) | | | | | | | |
|  | | | | | | | |
| lblDisplay = Label(calc, text="Scientific Calculator", | | | | | | | |
| font=('Helvetica', 30, 'bold'), | | | | | | | |
| bg='black', fg='white', justify=CENTER) | | | | | | | |
|  | | | | | | | |
| lblDisplay.grid(row=0, column=4, columnspan=4) | | | | | | | |
|  | | | | | | | |
| def iExit(): | | | | | | | |
| iExit = tkinter.messagebox.askyesno("Scientific Calculator", | | | | | | | |
| "Do you want to exit ?") | | | | | | | |
| if iExit > 0: | | | | | | | |
| root.destroy() | | | | | | | |
| return | | | | | | | |
|  | | | | | | | |
| def Scientific():  root.resizable(width=False, height=False) | | | | | | | |
| root.geometry("944x568+0+0") | | | |  | | | |
|  | | | |
|  | | | | | | | |
| def Standard(): | |  | | | | | |
| root.resizable(width=False, height=False) | | | | | |  | |
| root.geometry("480x568+0+0") | | | |  | | | |
|  | | | | | | | |
| menubar = Menu(calc) | | |  | | | | |
|  | | | | | | | |
| # ManuBar 1 : |  | | | | | | |
| filemenu = Menu(menubar, tearoff=0) | | | | |  | | |
| menubar.add\_cascade(label='File', menu=filemenu) | | | | | | |  |
| filemenu.add\_command(label="Standard", command=Standard) | | | | | | | |
| filemenu.add\_command(label="Scientific", command=Scientific) | | | | | | | |
| filemenu.add\_separator() | | | | | | | |
| filemenu.add\_command(label="Exit", command=iExit) | | | | | | | |
|  | | | | | | | |
| # ManuBar 2 : | | | | | | | |
| editmenu = Menu(menubar, tearoff=0) | | | | | | | |
| menubar.add\_cascade(label='Edit', menu=editmenu) | | | | | | | |
| editmenu.add\_command(label="Cut") | | | | | | | |
| editmenu.add\_command(label="Copy") | | | | | | | |
| editmenu.add\_separator() | | | | | | | |
| editmenu.add\_command(label="Paste") | | | | | | | |
|  | | | | | | | |
| root.config(menu=menubar) | | | | | | | |
|  | | | | | | | |
| root.mainloop() | | | | | | | |

