04/10/2020 Table.png

Index	Binary	Char									
0	000000	Α	16	010000	Q	32	100000	g	48	110000	W
1	000001	В	17	010001	R	33	100001	h	49	110001	х
2	000010	С	18	010010	S	34	100010	i	50	110010	у
3	000011	D	19	010011	Т	35	100011	j	51	110011	Z
4	000100	E	20	010100	U	36	100100	k	52	110100	0
5	000101	F	21	010101	V	37	100101	1	53	110101	1
6	000110	G	22	010110	W	38	100110	m	54	110110	2
7	000111	Н	23	010111	X	39	100111	n	55	110111	3
8	001000	I	24	011000	Υ	40	101000	0	56	111000	4
9	001001	J	25	011001	Z	41	101001	р	57	111001	5
10	001010	K	26	011010	а	42	101010	q	58	111010	6
11	001011	L	27	011011	b	43	101011	r	59	111011	7
12	001100	М	28	011100	С	44	101100	s	60	111100	8
13	001101	N	29	011101	d	45	101101	t	61	111101	9
14	001110	0	30	011110	e	46	101110	u	62	111110	+
15	001111	Р	31	011111	f	47	101111	v	63	111111	/

```
import random
while True:
    print("1. Rock, 2. Scissors, 3. Paper")
    user input = int(input("Enter the number"))
   while user input > 3 or user input < 1:
        user input = int(input("Please enter number between 1-3"))
    if user input == 1:
        user input choice = 'Rock'
    elif user input == 2:
       user input choice = 'Scissors'
    else:
        user input choice = 'Paper'
   print("User has selected", user input choice)
    device choice = random.randint(1,3)
   while user input == device choice:
        device choice = random.randint(1, 3)
    if device choice == 1:
        device input choice = 'Rock'
    elif device choice == 2:
        device input choice = 'Scissors'
    else:
        device input choice = 'Paper'
   print("Device has selected", device input choice)
    if (user input == 1 and device choice == 2) or (user input == 2
and device choice == 1):
        print("Rock Wins in this situation")
        result = 'Rock'
    elif (user input == 1 and device choice == 3) or (user input == 3
and device choice == 1):
        print("Paper Wins in this situation")
        result = 'Paper'
    else:
        print("Scissors wins in this situation")
        result = 'Scissors'
    if user input choice == result:
        print("User Wins the game")
    else:
        print("Device Wins the game")
   print("Would you like to play again ?")
    print("Y for Yes else N for No")
    rematch = input()
    if rematch == 'n' or rematch == 'N':
        break
print("Thank for playing.")
```

```
import base64
# Encoding
sample_string = 'Raunak Joshi'
sample_string_bytes = sample_string.encode('ascii')
encoded_bytes = base64.b64encode(sample_string_bytes)
encoded_bytes_string = encoded_bytes.decode('ascii')
# Decoding
encoded_bytes_string_revert = encoded_bytes_string.encode('ascii')
decoded_bytes = base64.b64decode(encoded_bytes_string_revert)
secret_message = decoded_bytes.decode('ascii')
print(secret_message)
```

```
from tkinter import *
root = Tk()
class Calculator:
    def click button(self, numbers):
        global operator
        global variable
        self.operator = self.operator + str(numbers)
        self.variable.set(self.operator)
    def clear(self):
        self.entry.delete(0, END)
        self.operator = ""
   def evaluate(self):
        self.answer = eval(self.entry.get())
        self.variable.set(self.answer)
        self.operator = str(self.answer)
    def init (self, master):
        self.operator = ""
        self.variable = StringVar()
        frame s = Frame(master, height=400, width=45)
        frame s.pack(side=TOP, fill=BOTH, expand=True)
        self.entry = Entry(
            frame s,
            textvariable=self.variable,
            bg='white',
            width=45,
            bd=20,
            insertwidth=4,
            justify='right',
            font=('arial', 10, 'bold')
        self.entry.pack()
        self.t = Text(self.entry, height=40)
        label key = Label(root, height=15, width=30, bd=10,
bg='gray50')
        label key.pack(side=LEFT, fill=BOTH, expand=True)
        label fkey = Label(root, height=15, width=15, bg='gray25')
        label fkey.pack(fill=BOTH, expand=True)
        label 7 = Label(label key)
        label 7.grid(row=0, column=0)
        button 7 = Button(
            label 7,
            text='7',
            font=('Helvetica', '16'),
            command= lambda : self.click button(7),
            bg='black',
            fg='white'
        )
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button 7.pack()
label 8 = Label(label key)
label 8.grid(row=0, column=1, padx=20)
button 8 = Button(
    label 8,
    text='8',
    font=('Helvetica', '16'),
    command= lambda: self.click button(8),
    bg='black',
    fg='white'
button 8.pack()
label 9 = Label(label key)
label 9.grid(row=0, column=2, padx=10)
button 9 = Button(
    label 9,
    text='9',
    font=('Helvetica', '16'),
    command= lambda: self.click button(9),
    bg='black',
    fg='white'
button 9.pack()
label 4 = Label(label key)
label 4.grid(row=1, column=0, padx=10, pady=10)
button 4 = Button(
    label 4,
    text='4',
    font=('Helvetica', '16'),
    command= lambda: self.click button(4),
    bg='black',
    fg='white'
button 4.pack()
label 5 = Label(label key)
label 5.grid(row=1, column=1, padx=10, pady=10)
button_5 = Button(
    label 5,
    text='5',
    font=('Helvetica', '16'),
    command= lambda: self.click button(5),
    bg='black',
    fg='white'
button 5.pack()
label 6 = Label(label key)
label 6.grid(row=1, column=2, padx=10, pady=10)
button 6 = Button(
    label 6,
    text='6',
    font=('Helvetica', '16'),
    command= lambda: self.click button(6),
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bg='black',
            fg='white'
        button 6.pack()
        label 1 = Label(label key)
        label 1.grid(row=2, column=0, padx=10)
        button 1 = Button(label 1, text='1', font=('Helvetica',
'16'), command= lambda: self.click button(1), bg='black', fg='white')
        button 1.pack()
        label 2 = Label(label key)
        label 2.grid(row=2, column=1, padx=10)
        button 2 = Button(label 2, text='2', font=('Helvetica',
'16'), command= lambda: self.click button(2), bg='black', fg='white')
        button 2.pack()
        label 3 = Label(label key)
        label 3.grid(row=2, column=2, padx=10)
        button 3 = Button(label 3, text='3', font=('Helvetica',
'16'),command= lambda: self.click button(3),bg='black',fg='white')
        button 3.pack()
        label 0 = Label(label key)
        label 0.grid(row=3, column=0, padx=10, pady=10)
        button 0 = Button(label 0, text='0', font=('Helvetica',
'16'), command= lambda: self.click button(0), bg='black', fg='white')
        button 0.pack()
        label deci = Label(label key)
        label deci.grid(row=3, column=1, padx=10, pady=10)
        button deci = Button(label deci, text='.', font=('Helvetica',
'16'), command= lambda: self.click button('.'), bg='black', fg='white')
        button deci.pack()
        label equal = Label(label key)
        label equal.grid(row=3, column=2, padx=10, pady=10)
        button equal = Button(label equal, text='=', font=
('Helvetica', '16'), command= self.evaluate, bg='black', fg='white')
        button equal.pack()
        label C = Label(label fkey)
        label C.grid(row=0, column=0,columnspan=2)
        button C = Button(label_C, text='C', font=('Helvetica', '16'),
height=1, width=10,command= self.clear,bg='black',fg='white')
        button C.pack(side=LEFT)
        label sub = Label(label fkey)
        label sub.grid(row=1, column=0, sticky=W, pady=10)
        button sub = Button(label sub, text='-', font=('Helvetica',
'16'), height=1, width=3,command= lambda: self.click button('-
'),bg='black',fg='white')
        button sub.pack(side=LEFT)
        label mul = Label(label fkey)
        label mul.grid(row=1, column=1, sticky=E)
        button mul = Button(label mul, text='x', font=('Helvetica',
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'16'), height=1, width=3,command= lambda:
self.click_button('*'),bg='black',fg='white')
       button mul.pack()
        label div = Label(label fkey)
        label div.grid(row=2, column=0, sticky=W)
       button_div = Button(label_div, text='/', font=('Helvetica',
'16'), height=1, width=3, command= lambda:
self.click button('/'),bg='black',fg='white')
       button div.pack()
        label add = Label(label fkey)
        label add.grid(row=2, column=1, sticky=E)
        button add = Button(label add, text='+', font=('Helvetica',
'16'), height=1, width=3,command= lambda:
self.click_button('+'),bg='black',fg='white')
       button add.pack()
c = Calculator(root)
root.mainloop()
```