

BMI Calculator

```
import tkinter as tk
from tkinter import ttk, messagebox
root = tk.Tk()
root.geometry("500x550")
root.title("BMI Calculator")

tk.Label(root, text="Age :", font=("Arial", 16, "bold"), fg="#001f3f",
bg="#f7f7f7").grid(row=0, column=0, padx=10, pady=10)
age=tk.StringVar()
tk.Entry(root, textvariable=age, font=("Arial", 12), bg="#e6f2ff",
relief="groove").grid(row=0, column=1, padx=10, pady=10)

tk.Label(root, text="Gender:", font=("Arial", 16, "bold"),
fg="#001f3f", bg="#f7f7f7").grid(row=1, column=0, padx=10, pady=10)
gender = tk.StringVar(value="Male")

# Create a Combobox with the new style
style = ttk.Style()
style.configure('TCombobox', font=("Arial", 12)) # Change font to
Helvetica, spyhtonize 12

gender_list=["Male", "Female"]
combo=ttk.Combobox(root, values=gender_list, style='TCombobox', font=("Ar
ial", 12, "bold"))
combo.set('Select a Gender')
combo.grid(row=1, column=1, padx=10, pady=10)

tk.Label(root, text="Height - cm:", font=("Arial", 16, "bold"),
fg="#001f3f", bg="#f7f7f7").grid(row=2, column=0, padx=10, pady=10)
height=tk.StringVar()
tk.Entry(root, textvariable=height, font=("Arial", 12), bg="#e6f2ff",
relief="groove").grid(row=2, column=1, padx=10, pady=10)

tk.Label(root, text="weight - kg:", font=("Arial", 16, "bold"),
fg="#001f3f", bg="#f7f7f7").grid(row=3, column=0, padx=10, pady=10)
weight=tk.StringVar()
tk.Entry(root, textvariable=weight, font=("Arial", 12), bg="#e6f2ff",
relief="groove").grid(row=3, column=1, padx=10, pady=10)

def fun():
    h=height.get()
    w=weight.get()
    m=int(h)/100
    bmi=int(w)/(m*m)
    msg=f"Your BMI is {bmi:0.2f}"
```

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    print(msg)
    messagebox.showinfo("BMI",message=msg)

# Submit button
btn_submit = tk.Button(root, text="Submit Reservation",
    command=fun,font=("Arial", 12), bg="#28a745", fg="white",
    activebackground="#218838", relief="raised")
btn_submit.grid(row=4, columnspan=6, pady=20)

# Define the categories, descriptions, and colors
bmi_info = [
    ("Underweight: Less than 18.5", "lightblue"),
    ("Optimum range: 18.5 to 24.9", "lightgreen"),
    ("Overweight: 25 to 29.9", "lightyellow"),
    ("Class I obesity: 30 to 34.9", "orange"),
    ("Class II obesity: 35 to 39.9", "red"),
    ("Class III obesity: More than 40", "darkred")
]
r=5
# Create a Label for each category with styling
for info, color in bmi_info:
    label = tk.Label(root, text=info, bg=color, fg="black",
    font=("Arial", 15,"bold"))
    label.grid(row=r, columnspan=6, pady=5)
    r+=1
root.mainloop()

Your BMI is 21.22

```

output

The image shows a BMI Calculator application window with the following inputs: Age: 22, Gender: Select a Gender, Height - cm: 175, weight - kg: 65. A green button labeled 'Submit Reservation' is visible. Below the inputs, the BMI ranges are displayed in colored boxes: Underweight: Less than 18.5 (blue), Optimum range: 18.5 to 24.9 (green), Overweight: 25 to 29.9 (yellow), Class I obesity: 30 to 34.9 (orange), Class II obesity: 35 to 39.9 (red), and Class III obesity: More than 40 (dark red). A message box titled 'BMI' is overlaid on the right, displaying 'Your BMI is 21.22' with an 'OK' button.

Railway Reservation System

```
import tkinter as tk
from tkinter import messagebox

def submit_reservation():
    # Collecting input data
    name = entry_name.get()
    age = entry_age.get()
    gender = gender_var.get()
    source = source_var.get()
    destination = destination_var.get()
    travel_date = entry_date.get()
    train_number = entry_train_number.get()
    berth = berth_var.get()
```

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    # Simple validation
    if all([name, age, gender, source, destination, travel_date,
train_number, berth]):
        messagebox.showinfo("Reservation Successful",
                             f"Name: {name}\nAge: {age}\nGender:
{gender}\n"
                             f"Source: {source}\nDestination:
{destination}\n"
                             f"Travel Date: {travel_date}\nTrain
Number: {train_number}\n"
                             f"Berth: {berth}")
    else:
        messagebox.showwarning("Input Error", "Please fill in all
fields.")

# Create the main window
root = tk.Tk()
root.title("Railway Reservation System")

# form
tk.Label(root, text="Name:",font=("Arial", 16, "bold"), fg="#001f3f",
bg="#f7f7f7").grid(row=0, column=0, padx=10, pady=10)
entry_name = tk.Entry(root,font=("Arial", 12), bg="#e6f2ff",
relief="groove")
entry_name.grid(row=0, column=1, padx=10, pady=10)

tk.Label(root, text="Age:",font=("Arial", 16, "bold"), fg="#001f3f",
bg="#f7f7f7").grid(row=1, column=0, padx=10, pady=10)
entry_age = tk.Entry(root,font=("Arial", 12), bg="#e6f2ff",
relief="groove",show="*")
entry_age.grid(row=1, column=1, padx=10, pady=10)

gender_list=["Male","Female"]
tk.Label(root, text="Gender:",font=("Arial", 16, "bold"),
fg="#001f3f", bg="#f7f7f7").grid(row=2, column=0, padx=10, pady=10)
gender_var = tk.StringVar(value="Male")
# tk.Radiobutton(root, text="Male", variable=gender_var,
value="Male",font=("Arial", 12), fg="#333333", bg="#f7f7f7",
selectcolor="#e6f2ff", activebackground="#d4edda").grid(row=2,
column=1, padx=5, pady=5, sticky="w")
# tk.Radiobutton(root, text="Female", variable=gender_var,
value="Female",font=("Arial", 12), fg="#333333", bg="#f7f7f7",
selectcolor="#e6f2ff", activebackground="#d4edda").grid(row=2,
column=2, padx=5, pady=5, sticky="w")
from tkinter import ttk
combo=ttk.Combobox(root,values=gender_list,font=("Arial", 12, "bold"))
combo.set('Select a Gender')
combo.grid(row=2, column=1, padx=10, pady=10)
# Journey Details

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```

tk.Label(root, text="Source:",font=("Arial", 16, "bold"),
fg="#001f3f", bg="#f7f7f7").grid(row=3, column=0, padx=10, pady=10)
source_var = tk.StringVar(value="Hyderabad")
source_dropdown = tk.OptionMenu(root, source_var, "Hyderabad",
" Mumbai", "Goa")
source_dropdown.grid(row=3, column=1, padx=10, pady=10)

tk.Label(root, text="Destination:",font=("Arial", 16, "bold"),
fg="#001f3f", bg="#f7f7f7").grid(row=4, column=0, padx=10, pady=10)
destination_var = tk.StringVar(value="Mumbai")
destination_dropdown = tk.OptionMenu(root, destination_var,
"Hyderabad", " Mumbai", "Goa")
destination_dropdown.grid(row=4, column=1, padx=10, pady=10)

tk.Label(root, text="Travel Date (YYYY-MM-DD):",font=("Arial", 16,
"bold"), fg="#001f3f", bg="#f7f7f7").grid(row=5, column=0, padx=10,
pady=10)
entry_date = tk.Entry(root,font=("Arial", 12), bg="#e6f2ff",
relief="groove")
entry_date.grid(row=5, column=1, padx=10, pady=10)

# Train Information
tk.Label(root, text="Train Number:",font=("Arial", 16, "bold"),
fg="#001f3f", bg="#f7f7f7").grid(row=6, column=0, padx=10, pady=10)
entry_train_number = tk.Entry(root,font=("Arial", 12), bg="#e6f2ff",
relief="groove")
entry_train_number.grid(row=6, column=1, padx=10, pady=10)

# Berth Options
tk.Label(root, text="Select Berth Type:",font=("Arial", 16, "bold"),
fg="#001f3f", bg="#f7f7f7").grid(row=7, column=0, padx=10, pady=10)
berth_var = tk.StringVar(value="Sleeper")

berth_options = [
    ("Sleeper", "lightblue"),
    ("AC", "lightgreen"),
    ("General", "lightpink"),
    ("Tatkal", "lightcoral"),
    ("Waiting", "lightgrey")
]

for i, (option, color) in enumerate(berth_options):
    rb = tk.Radiobutton(root, text=option, variable=berth_var,
value=option, bg=color)
    rb.grid(row=7, column=i + 1, padx=5, pady=5)

# Submit button
btn_submit = tk.Button(root, text="Submit Reservation",
command=submit_reservation,font=("Arial", 12), bg="#28a745",
fg="white", activebackground="#218838", relief="raised")

```

```
btn_submit.grid(row=8, columnspan=6, pady=20)

# Run the application
root.mainloop()
```

output

The screenshot shows a Tkinter window titled "Railway Reservation System". Inside, there are labels and input widgets for user information and reservation details. The "Name" field contains "Mohd Subhan Pasha". The "Age" field contains "**". The "Gender" dropdown is set to "Male". The "Source" dropdown is set to "Hyderabad". The "Destination" dropdown is set to "Mumbai". The "Travel Date (YYYY-MM-DD)" field is empty. The "Train Number" field is empty. The "Select Berth Type" section has five radio buttons: "Sleeper", "AC", "General", "Tatkal", and "Waiting". A green "Submit Reservation" button is located at the bottom center.

```
import tkinter as tk
from tkinter import messagebox

def submit_reservation():
    # Collecting input data
    name = entry_name.get()
    age = entry_age.get()
    gender = gender_var.get()
    source = source_var.get()
    destination = destination_var.get()
    travel_date = entry_date.get()
    train_number = entry_train_number.get()
    berth = berth_var.get()

    # Simple validation
    if all([name, age, gender, source, destination, travel_date,
            train_number, berth]):
        messagebox.showinfo("Reservation Successful",
```

```

        f"Name: {name}\nAge: {age}\nGender:
{gender}\n"
        f"Source: {source}\nDestination:
{destination}\n"
        f"Travel Date: {travel_date}\nTrain
Number: {train_number}\n"
        f"Berth: {berth}")
    else:
        messagebox.showwarning("Input Error", "Please fill in all
fields.")

# Create the main window
root = tk.Tk()
root.title("Railway Reservation System")

# form
tk.Label(root, text="Name:",font=("Arial", 16, "bold"), fg="#001f3f",
bg="#f7f7f7").grid(row=0, column=0, padx=10, pady=10)
entry_name = tk.Entry(root,font=("Arial", 12), bg="#e6f2ff",
relief="groove")
entry_name.grid(row=0, column=1, padx=10, pady=10)

tk.Label(root, text="Age:",font=("Arial", 16, "bold"), fg="#001f3f",
bg="#f7f7f7").grid(row=1, column=0, padx=10, pady=10)
entry_age = tk.Entry(root,font=("Arial", 12), bg="#e6f2ff",
relief="groove",show="*")
entry_age.grid(row=1, column=1, padx=10, pady=10)

gender_list=["Male","Female"]
tk.Label(root, text="Gender:",font=("Arial", 16, "bold"),
fg="#001f3f", bg="#f7f7f7").grid(row=2, column=0, padx=10, pady=10)
gender_var = tk.StringVar(value="Male")

from tkinter import ttk
combo=ttk.Combobox(root,values=gender_list,font=("Arial", 12, "bold"))
combo.set('Select a Gender')
combo.grid(row=2, column=1, padx=10, pady=10)
# Journey Details

capitals = [
    "Amaravati", "Itanagar", "Dispur", "Patna", "Raipur", "Panaji",
    "Gandhinagar", "Chandigarh",
    "Shimla", "Ranchi", "Bengaluru", "Thiruvananthapuram", "Bhopal",
    "Mumbai", "Imphal",
    "Shillong", "Aizawl", "Kohima", "Bhubaneswar", "Chandigarh",
    "Jaipur", "Gangtok",
    "Chennai", "Hyderabad", "Agartala", "Lucknow", "Dehradun",
    "Kolkata",
    "Port Blair", "Chandigarh", "Daman", "Kavaratti", "New Delhi",
    "Puducherry"

```

```

]
tk.Label(root, text="Source:",font=("Arial", 16, "bold"),
fg="#001f3f", bg="#f7f7f7").grid(row=3, column=0, padx=10, pady=10)
source_var = tk.StringVar(value="Male")
combo=ttk.Combobox(root,values=capitals,font=("Arial", 12, "bold"))
combo.set('Select a Source')
combo.grid(row=3, column=1, padx=10, pady=10)

destination_list=["Hyderabad","Mumbai"]
tk.Label(root, text="Destination:",font=("Arial", 16, "bold"),
fg="#001f3f", bg="#f7f7f7").grid(row=4, column=0, padx=10, pady=10)
destination_var = tk.StringVar(value="Male")
combo=ttk.Combobox(root,values=capitals,font=("Arial", 12, "bold"))
combo.set('Select a destination')
combo.grid(row=4, column=1, padx=10, pady=10)

tk.Label(root, text="Travel Date (DD-MM-YYYY):",font=("Arial", 16,
"bold"), fg="#001f3f", bg="#f7f7f7").grid(row=5, column=0, padx=10,
pady=10)
entry_date = tk.Entry(root,font=("Arial", 12), bg="#e6f2ff",
relief="groove")
entry_date.grid(row=5, column=1, padx=10, pady=10)

# Berth Options
tk.Label(root, text="Select Berth Type:",font=("Arial", 16, "bold"),
fg="#001f3f", bg="#f7f7f7").grid(row=6, column=0, padx=10, pady=10)
berth_var = tk.StringVar(value="Sleeper")

berth_options = [
    ("Sleeper", "lightblue"),
    ("AC", "lightgreen"),
    ("General", "lightpink"),
    ("Tatkal", "lightcoral"),
    ("Waiting", "lightgrey")
]

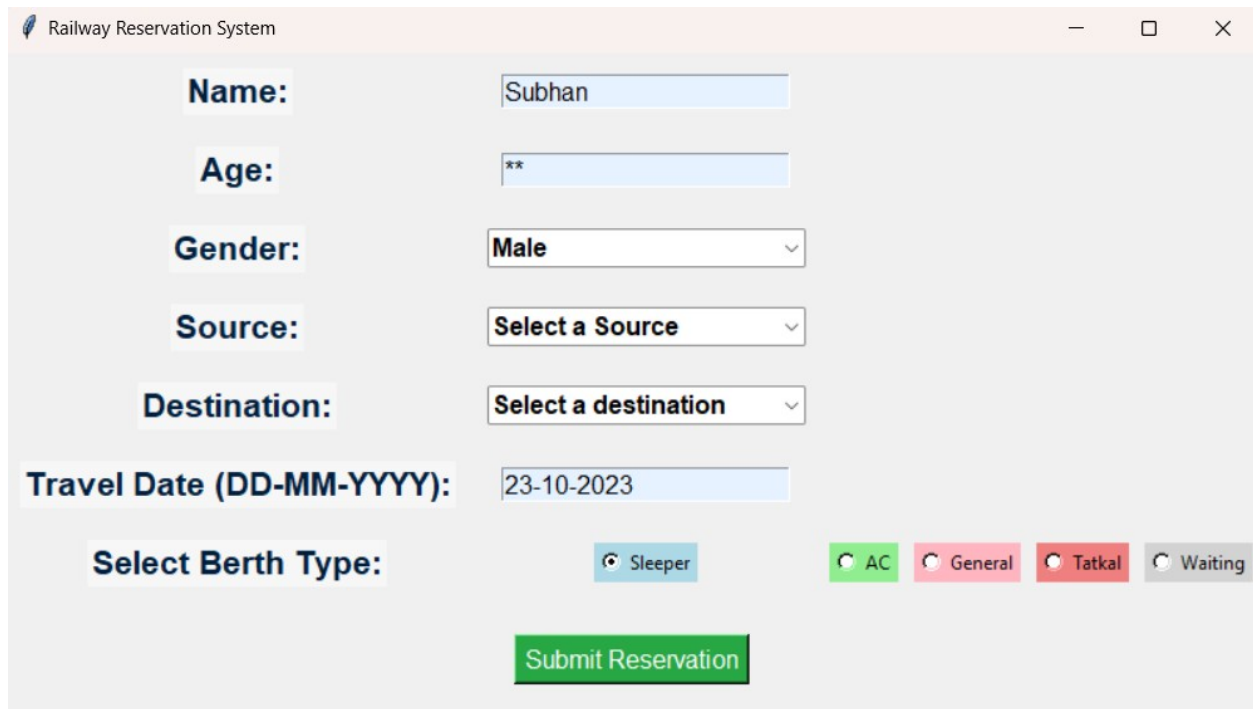
for i, (option, color) in enumerate(berth_options):
    rb = tk.Radiobutton(root, text=option, variable=berth_var,
value=option, bg=color)
    rb.grid(row=6, column=i + 1, padx=5, pady=5)

# Submit button
btn_submit = tk.Button(root, text="Submit Reservation",
command=submit_reservation,font=("Arial", 12), bg="#28a745",
fg="white", activebackground="#218838", relief="raised")
btn_submit.grid(row=7, columns=6, pady=20)

# Run the application
root.mainloop()

```


output



The screenshot shows a web application window titled "Railway Reservation System". It contains a form with the following fields and options:

- Name:** Text input field containing "Subhan".
- Age:** Text input field containing "**".
- Gender:** Dropdown menu with "Male" selected.
- Source:** Dropdown menu with "Select a Source" selected.
- Destination:** Dropdown menu with "Select a destination" selected.
- Travel Date (DD-MM-YYYY):** Text input field containing "23-10-2023".
- Select Berth Type:** A row of four radio button options: "Sleeper" (selected, blue background), "AC" (green background), "General" (pink background), and "Tatkal" (red background). There is also a "Waiting" option in a greyed-out state.
- Submit Reservation:** A green button at the bottom.

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