

3. Ticket is free for <3 and more than 80

The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a folder named 'IMAGES' with several files including 'custom.py'. The main editor displays the code for 'custom.py', which defines a 'TicketFree' exception and a logic to check if a ticket is free based on age. The terminal at the bottom shows the execution of the script, demonstrating that tickets are free for ages less than 3 or greater than 80.

```
1 class TicketFree(Exception):
2     pass
3 try:
4     input_age=int(input("Enter your age:"))
5     if input_age <3 or input_age>80:
6         print("Ticket is free")
7     else:
8         raise TicketFree
9 except TicketFree:
10    print("Exception occurred:You should pay for this ticket");
11 finally:
12    print("Thank you")
13
```

python3.10.exe c:/Users/Admin/Desktop/html/images/custom.py
Enter your age:2
Ticket is free
Thank you
PS C:\Users\Admin\Desktop\html\images> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/Admin/Desktop/html/images/custom.py
Enter your age:90
Ticket is free
Thank you
PS C:\Users\Admin\Desktop\html\images> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/Admin/Desktop/html/images/custom.py
Enter your age:9
Exception occurred:You should pay for this ticket
Thank you

2)Date validation for booking tickets

The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a folder named 'IMAGES' with several files including 'custom.py'. The main editor displays the code for 'custom.py', which defines a 'date_validation' function to check if a date is valid. The terminal at the bottom shows the execution of the script, demonstrating that tickets can be booked for valid dates and not for invalid dates.

```
1 import datetime
2 def date_validation(day, month, year):
3
4     isValidDate = True
5
6     try :
7         datetime.datetime(int(year),
8                             int(month), int(day))
9
10    except ValueError :
11        isValidDate = False
12
13    if(isValidDate) :
14        print ("You can book tickets")
15    else :
16        print ("Invalid date to book ticket")
17 date_validation(10,12,2000)
18 date_validation(31,2,2000)
```

You can book tickets
Invalid date to book ticket
PS C:\Users\Admin\Desktop\html\images>

1) Password should not be blank and it must have 8 characters

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left lists files in a folder named 'IMAGES', including 'custom.py', 'demo.json', 'demo.py', 'encap.py', 'exception.py', 'file.py', 'filedemo.py', 'oops.py', 'oopsconcept', 'pickling.py', 'pwd.py', 'samp.xlsx', 'sample.xls', and 'zipping.py'. The main editor window displays the code for 'custom.py':

```
1 > class PasswordCreationError(Exception): ...
3 try:
4     input_pwd=input("Enter ur password")
5     d=0
6     if(len(input_pwd)==8):
7         for i in input_pwd:
8             if i.isdigit() and i!=' ':
9                 d=d+1
10    if d!=0:
11        print("Password created successfully")
12    else:
13        raise PasswordCreationError
14 except PasswordCreationError:
15    print("Exception occured: It should meet the password criteria")
16
```

The TERMINAL panel at the bottom shows the command prompt output:

```
PS C:\Users\Admin\Desktop\html\images> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/Admin/Desktop/html/images/custom.py
Enter ur password12345678
Password created successfully
PS C:\Users\Admin\Desktop\html\images> & C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/Admin/Desktop/html/images/custom.py
Enter ur password12 3445678 C:/Users/Admin/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/Admin/Desktop/html/images/custom.py
Exception occured: It should meet the password criteria
PS C:\Users\Admin\Desktop\html\images>
```

The status bar at the bottom indicates the current line is 16, column 1, with 4 spaces, UTF-8 encoding, and CRLF line endings. It also shows the Python version as 3.10.9 64-bit (microsoft store).

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