Programming Laboratory-I

Assignment No-11

(Python File, exception handling and GUI)

2020BTECS00005

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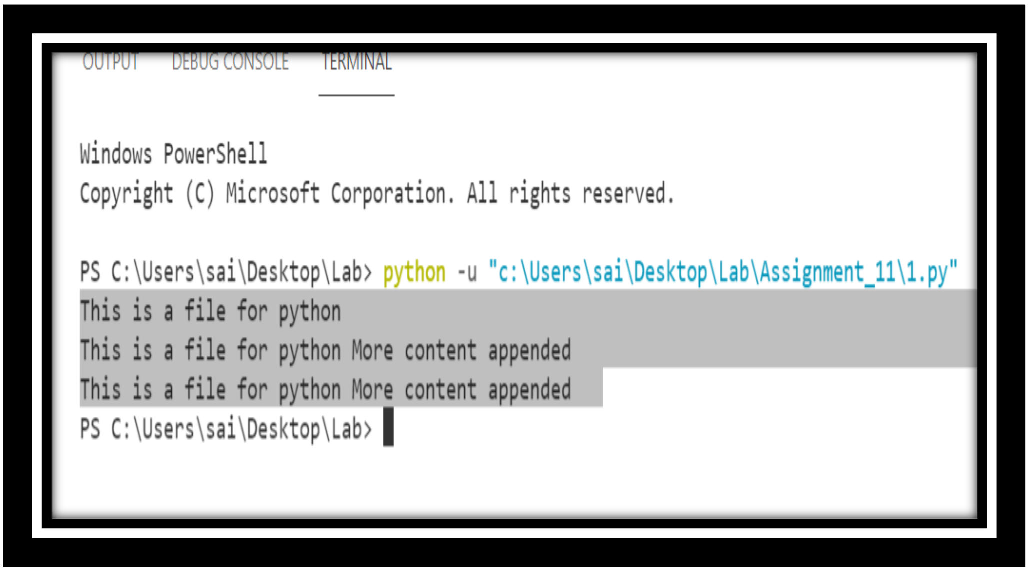
1. Perform below operations on any text file.
   a. Open (using create mode)
   b. Read (using read(), readLine() and for loop)
   c. Write (using append mode as well as write mode)
   d. Close
   e. Delete

```
f = open("demo.txt", 'x')

#write
f = open("demo.txt", 'w')
f.write("This is a file for python")

#read method
f = open("demo.txt", 'r')
print(f.read())

#append
f = open("demo.txt", 'a')
f.write(" More content appended")

#loop to read file
f = open("demo.txt", 'r')
for x in f:
    print(x)

#read one line
f = open("demo.txt", 'r')
print(f.readline())
```

OUTPUT



```
Windows PowerShell
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PS C:\Users\sai\Desktop\Lab> python -u "c:\Users\sai\Desktop\Lab\Assignment_11\1.py"
This is a file for python
This is a file for python More content appended
This is a file for python More content appended
PS C:\Users\sai\Desktop\Lab>
```
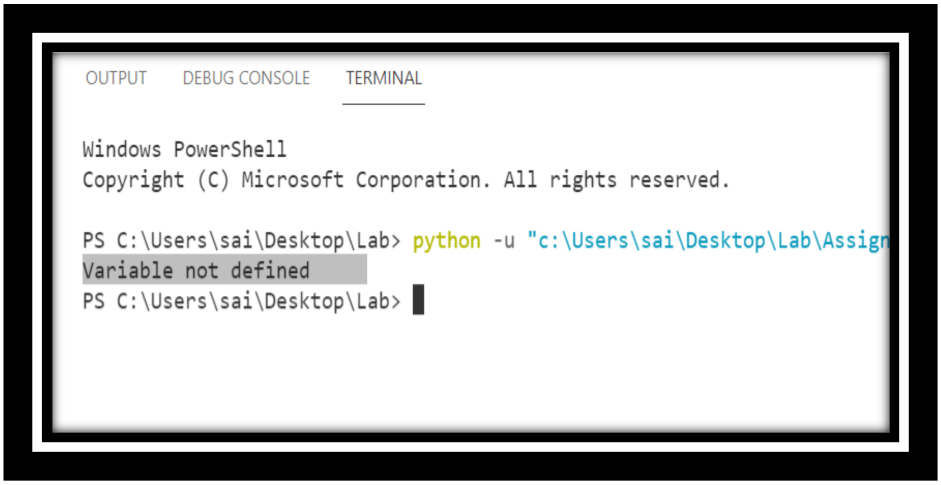

2.Write a program for exception handling which contains single try block and multiple except blocks.

```
from msilib.schema import Error

try:
    print(x)
except NameError:
    print("Variable not defined")
except:
    print("Something else went wrong")
```



```
Windows PowerShell
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PS C:\Users\sai\Desktop\Lab> python -u "c:\Users\sai\Desktop\Lab\Assign
Variable not defined
PS C:\Users\sai\Desktop\Lab>
```

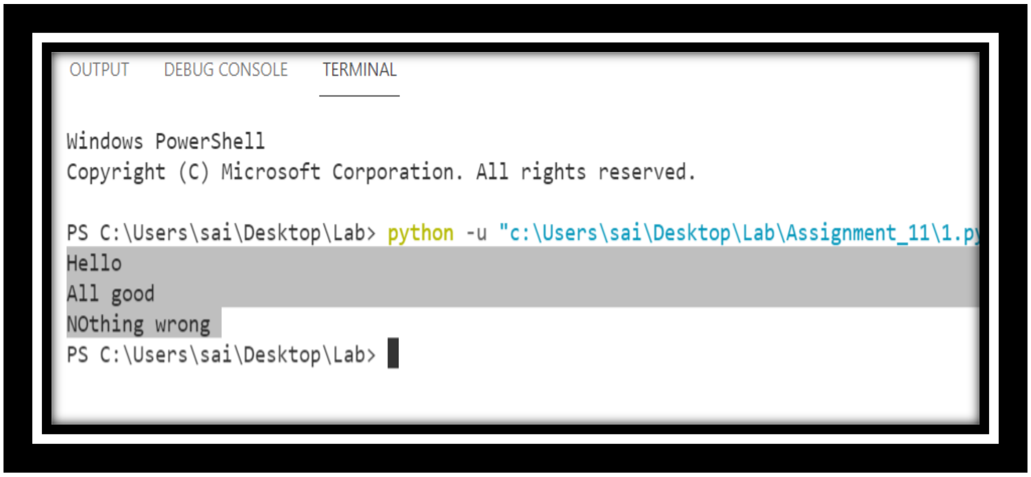
OUTPUT

1. Write a program for exception handling for studying functionality of **else** and **finally** statements.

```
try:

    print("Hello")
except TypeError:
    print("Something went wrong")
else:
    print("All good")
finally:
    print("Nothing wrong")
```

OUTPUT



```
Windows PowerShell
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PS C:\Users\sai\Desktop\Lab> python -u "c:\Users\sai\Desktop\Lab\Assignment_11\1.p
Hello
All good
NOthing wrong
PS C:\Users\sai\Desktop\Lab>
```
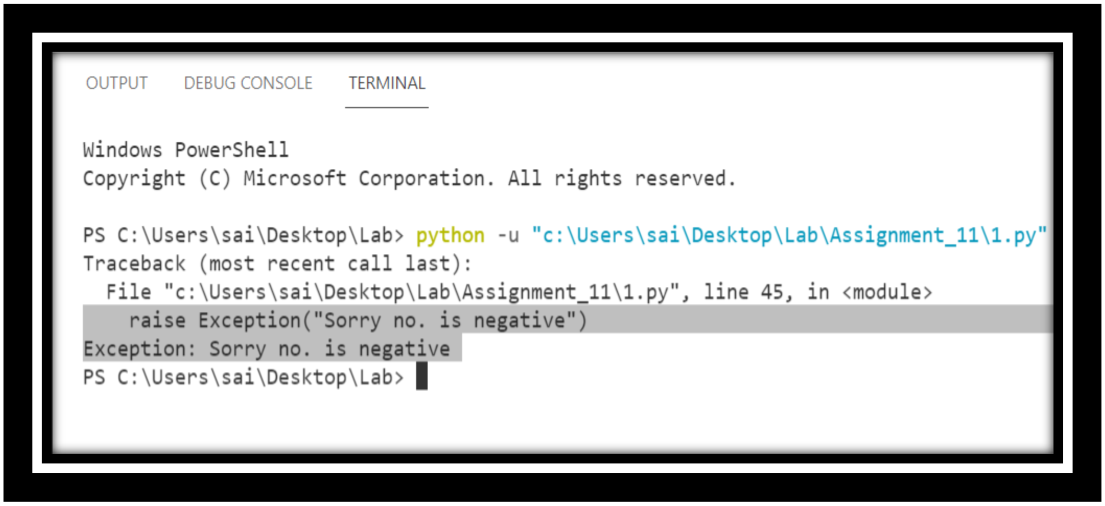

2. Write a program of exception handling which throws an exception using **raise** keyword(there should be multiple raise statements based on certain condition)

```
x=-3
if x<0:
    raise Exception("Sorry no. is negative")
```

OUTPUT



```
Windows PowerShell
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PS C:\Users\sai\Desktop\Lab> python -u "c:\Users\sai\Desktop\Lab\Assignment_11\1.py"
Traceback (most recent call last):
  File "c:\Users\sai\Desktop\Lab\Assignment_11\1.py", line 45, in <module>
    raise Exception("Sorry no. is negative")
Exception: Sorry no. is negative
PS C:\Users\sai\Desktop\Lab>
```
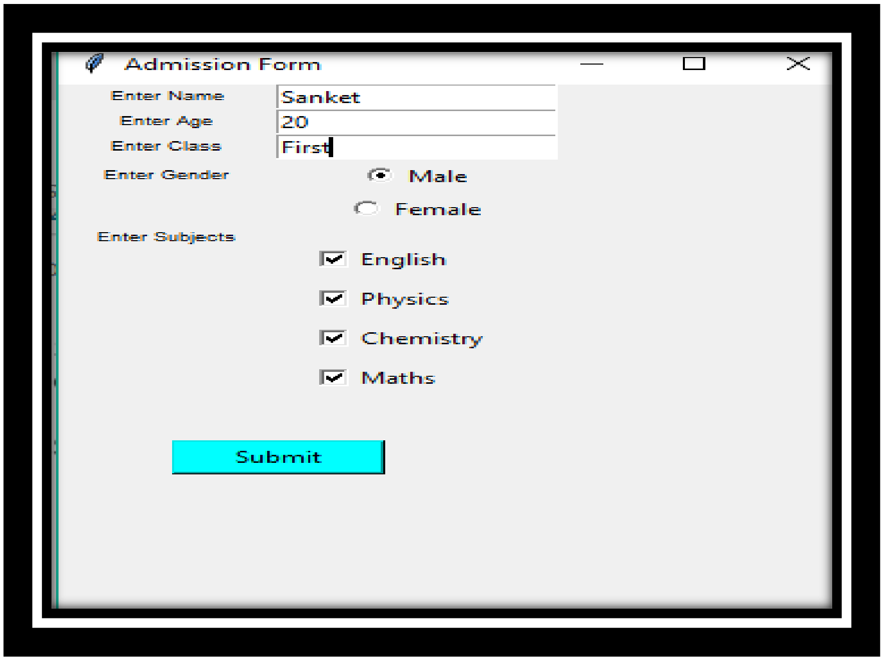

3. Create a simple admission registration form using python GUI.

(after submission show message as Successfully registered)

```
from tkinter import *

m = Tk()
m.title('Admission Form')

w = Canvas(m,width=200)
Label(m, text =  "Enter Name",
width=15,font=("bold",7)).grid(row = 0, column = 0)
Label(m, text =  "Enter Age",
width=15,font=("bold",7)).grid(row = 1, column = 0)
Label(m, text =  "Enter Class",
width=15,font=("bold",7)).grid(row = 2, column = 0)
Label(m, text =  "Enter Gender",
width=15,font=("bold",7)).grid(row = 3, column = 0)

var1=IntVar()

Label(m, text =  "Enter Subjects",
width=15,font=("bold",7)).grid(row = 7, column = 0)
Checkbutton(m,text="English", variable=var1).place(x=
110,y=120)
Checkbutton(m,text="Physics",
variable=var1).place(x=110,y=150)
Checkbutton(m,text="Chemistry",
variable=var1).place(x=110,y=180)
Checkbutton(m,text="Maths",
variable=var1).place(x=110,y=210)

var=IntVar()

Radiobutton(m,text="Male",padx= 4,variable= var,
value=1).grid(row = 3, column = 1)
Radiobutton(m,text="Female",padx= 4,variable= var,
value=2).grid(row = 4, column = 1)

w = Entry(m, ).grid(row = 0, column = 1)
```

```
w = Entry(m, ).grid(row = 1, column = 1)
w = Entry(m, ).grid(row = 2, column = 1)
b= Button(m, text = "Submit", width = 12, bg="cyan"
,command=m.destroy).place(x=50, y=270)

m.mainloop()
```

OUTPUT



Admission Form

Enter Name Sanket

Enter Age 20

Enter Class First

Enter Gender ● Male ○ Female

Enter Subjects ☑ English ☑ Physics ☑ Chemistry ☑ Maths