

ASSIGNMENT-3

PYTHON CODING WITH GOOGLE COLABORATORY

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```

```
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    "  \n",  
    "***into a list. ***"  
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  ]
```

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        ]
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        "tags": []
      },
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```

```
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    "  planet = \"Earth\"\n",
    "  diameter = 12742\n",
    "\n",
    "*** Use .format() to print the following string: **\n",
    "\n",
    "  The diameter of Earth is 12742 kilometers."
  ]
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```

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  "diameter = 12742\\n"  
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        "The diameter of Earth is 12742 kilometers.\\n"  
      ]  
    }  
  ],  
  "source": [  
    "print(\"The diameter of {} is {} kilometres.\".format(planet,diameter))"  
  ]  
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```

```
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    "lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]"
  ]
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```

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      "text/plain": [
        "'hello'"
      ]
    },
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    "metadata": {
      "tags": []
    },
    "output_type": "execute_result"
  }
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  "metadata": {
```



```
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    "*** Given this nest dictionary grab the word \"hello\". Be prepared, this will be annoying/tricky ***"
  ]
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  ]
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  "outputs": [
```

```
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    "text/plain": [
      "hello"
    ]
  },
  "execution_count": 16,
  "metadata": {
    "tags": []
  },
  "output_type": "execute_result"
},
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  "source": [
    "d['k1'][3]['tricky'][3]['target'][3]\n"
  ],
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    "id": "FInV_FKB85kI"
  },
  "source": [
    "*** What is the main difference between a tuple and a list? ***"
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```

```
},  
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  "metadata": {  
    "collapsed": true,  
    "id": "_VBWf00q85kJ"  
  },  
  "outputs": [],  
  "source": [  
    "#Tuple is immutable"  
  ]  
},  
{  
  "cell_type": "markdown",  
  "metadata": {  
    "id": "zP-j0HZj85kK"  
  },  
  "source": [  
    "*** Create a function that grabs the email website domain from a string in the form: **\n",  
    "\n",  
    "  user@domain.com\n",  
    "  \n",  
    "***So for example, passing \"user@domain.com\" would return: domain.com***"  
  ]
```

```
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  "metadata": {  
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  "outputs": [],  
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    "def domainGet(email):\n",  
    "    return email.split('@)[-1]"  
  ]  
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```

```
        "domain.com"
    ]
},
"execution_count": 26,
"metadata": {
    "tags": []
},
"output_type": "execute_result"
}
],
"source": [
    "domainGet('user@domain.com')"
]
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    },
    "source": [
```

```
        """ Create a basic function that returns True if the word 'dog' is contained in the input string. Don't
        worry about edge cases like a punctuation being attached to the word dog, but do account for
        capitalization. """
    ]
},
{
```

```
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  "def findDog(st):\n",
  "    return 'dog in st.lower().split()'
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  "outputs": [
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        ]
      }
    ]
  }
}
```

```
    },  
    "execution_count": 28,  
    "metadata": {  
        "tags": []  
    },  
    "output_type": "execute_result"  
}
```

```
],  
"source": [  
    "findDog('Is there a dog here?')"  
]
```

```
},  
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    },
```

```
    "source": [  
        """ Create a function that counts the number of times the word \"dog\" occurs in a string. Again  
        ignore edge cases. """  
    ]  
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```

```
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  "def countDog(st):\n",
  "    count=0\n",
  "    for word in st.lower().split():\n",
  "        if word == 'dog':\n",
  "            count += 1\n",
  "    return count"
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  "outputs": [
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        "text/plain": [
          "2"
        ]
      }
    ]
  }
}
```



```

    ]
  },
  "execution_count": 31,
  "metadata": {
    "tags": []
  },
  "output_type": "execute_result"
}
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"source": [
  "countDog('This dog runs faster than the other dog dude!')"
]
},
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  "cell_type": "markdown",
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  },
  "source": [
    "### Problem\n",
    "***You are driving a little too fast, and a police officer stops you. Write a function\n",
    " to return one of 3 possible results: \"No ticket\", \"Small ticket\", or \"Big Ticket\". \n",
    " If your speed is 60 or less, the result is \"No Ticket\". If speed is between 61 \n",
    " and 80 inclusive, the result is \"Small Ticket\". If speed is 81 or more, the result is \"Big Ticket\". Unless it is your birthday (encoded as a boolean value in the parameters of the function) -- on your birthday, your speed can be 5 higher in all \n",

```

```
" cases. **"

]
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    "def caught_speeding(speed, is_birthday):\n",
    "    \n",
    "    if is_birthday:\n",
    "        speeding = speed - 5\n",
    "    else:\n",
    "        speeding = speed\n",
    "    \n",
    "    if speeding > 80:\n",
    "        return 'Big Ticket'\n",
    "    elif speeding > 60:\n",
    "        return 'Small Ticket'\n",
    "    else:\n",
    "        return 'No Ticket'"
  ]
}
```

```
]
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  },
  "outputs": [
    {
      "data": {
        "text/plain": [
          "'Big Ticket'"
        ]
      },
      "execution_count": 6,
      "metadata": {
        "tags": []
      },
      "output_type": "execute_result"
    }
  ],
  "source": [
    "caught_speeding(81,False)"
  ]
}
```

```
]
},
{
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  "execution_count": null,
  "metadata": {
    "id": "p1AGJ7DM85kR",
    "outputId": "ca80629f-5949-4926-8d27-1b61576669ac"
  },
  "outputs": [
    {
      "data": {
        "text/plain": [
          "'Small Ticket'"
        ]
      },
      "execution_count": 5,
      "metadata": {
        "tags": []
      },
      "output_type": "execute_result"
    }
  ],
  "source": [
    "caught_speedin(81,True)"
  ]
}
```

```
]
```

```
},
```

```
{
```

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"cell_type": "markdown",
```

```
"source": [
```

"Create an employee list with basic salary values(at least 5 values for 5 employees) and using a for loop retrieve each employee salary and calculate total salary expenditure. "

```
],
```

```
"metadata": {
```

```
"id": "Tie4rC7_kAOC"
```

```
}
```

```
},
```

```
{
```

```
"cell_type": "code",
```

```
"source": [
```

```
"for(i=0;i<=5;i++)\n",
```

```
"sample_dict = {\n",
```

```
"  \"name\": \"Kelly\", \n",
```

```
"  \"age\": 28, \n",
```

```
"  \"salary\": 20000, \n",
```

```
"  \"city\": \"New york\" \n",
```

```
"  \"emp id\": '62345' } \n",
```

```
"key=[\"name\", \"salary\"]"
```

```
],
```

```
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```

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    "\n",
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    "\n",
    "Second dictionary to contain fields as DeptName, DeptId.\n",
    "\n",
    "Combine both dictionaries. "
  ],
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  }
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  "source": [
    "def Merge(dict_1,dict_2):\n",
    "    result = dict_1| dict_2\n",
```

```
" return result\n",  
"dict_1={ 'Empid': 76543, 'Empname': muthu, 'Basicpay': 9000}\n",  
"dict_1={ 'DeptName': computer science engineering, 'DeptName': 98761,}\n",  
"dict_3 = Merge(dict_1,dict_2)\n",  
"print(dict_3)\n",  
"\n"  
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```


Browser tabs: Welcome to Project! Delight..., IBM, Created using Colaboratory, My Drive - Google Drive, M.Suba_Assignment_3_Pyth...

Address bar: colab.research.google.com/drive/1r7kz79df1HfMG_TuyEsAjyCz1Ktdpnjg

Navigation bar: M.Suba_Assignment_3_Python.ipynb, File Edit View Insert Runtime Tools Help Last saved at 9:16 AM, Comment, Share, Settings, Profile

Code editor tabs: + Code + Text

Code editor content:

```
7 **4
2481

** What is 7 to the power of 4?**
    Indented block

** Split this string:**

s = "Hi there Sam!"

*into a list.*

[ ] s = "Hi there Sam!"

[ ] s.split()

['Hi', 'there', 'dad!']
```

Windows taskbar: Type here to search, 28°C Partly cloudy, ENG, 09:19, 07-10-2022

The screenshot shows a Google Colaboratory notebook interface. The browser tabs at the top include 'Welcome to Project! Delight...', 'IBM', 'Created using Colaboratory', 'My Drive - Google Drive', and the active tab 'M.Suba_Assignment_3_Python.ipynb'. The notebook's address bar shows the URL 'colab.research.google.com/drive/1r7kz79df1HfMG_TuyEsAjyCz1Ktdpnjg'. The notebook title is 'M.Suba_Assignment_3_Python.ipynb' with a star icon and a 'Last saved at 9:16 AM' timestamp. The interface includes a menu bar with 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', and 'Help'. On the left, there is a sidebar with icons for file explorer, search, and code execution. The main area displays a Jupyter notebook cell with the following content:

```
[ ] s.split()

['Hi', 'there', 'dad!']

** Given the variables:**

planet = "Earth"
diameter = 12742

** Use .format() to print the following string: **

The diameter of Earth is 12742 kilometers.

[ ] planet = "Earth"
diameter = 12742

[ ] print("The diameter of {} is {} kilometres.".format(planet,diameter))

The diameter of Earth is 12742 kilometres
```

The bottom of the image shows the Windows taskbar with a search bar, several application icons, and system status information including 'Good air', 'ENG', and the date '07-10-2022'.

colab.research.google.com/drive/1r7kz79df1HfMG_TuyEsAjyCz1Ktdpnjg

M.Suba_Assignment_3_Python.ipynb

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+ Code + Text

```
[ ] print("The diameter of {} is {} kilometres.".format(planet,diameter))

The diameter of Earth is 12742 kilometers.

** Given this nested list, use indexing to grab the word "hello" **

[ ]
lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]

[ ] lst[3][1][2][0]

'hello'

** Given this nest dictionary grab the word "hello". Be prepared, this will be annoying/tricky **

[ ] d = {'k1':[1,2,3',{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}

[ ] d['k1'][3]['tricky'][3]['target'][3]

'hello'
```

AQI 42 09:22 07-10-2022

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Address bar: colab.research.google.com/drive/1r7kz79df1HfMG_TuyEsAgyCz1Ktdpnjg

Navigation: Gmail, YouTube, Maps, TCS iONJ Digital Le..., TCS iONJ Digital Le..., I have seek this cou..., Sent Mail - aswiniy..., Anna University - C..., online-gaming.web...

File M.Suba_Assignment_3_Python.ipynb ☆

Menu: File Edit View Insert Runtime Tools Help Last saved at 9:16 AM

Buttons: Comment, Share, Settings, Profile

Code Editor: + Code + Text Connect Editing

```
'hello'
```

** What is the main difference between a tuple and a list? **

```
[ ] #Tuple is immutable
```

** Create a function that grabs the email website domain from a string in the form: **

```
user@domain.com
```

So for example, passing "user@domain.com" would return: domain.com

```
[ ] def domainGet(email):  
    return email.split('@')[-1]
```

```
[ ] domainGet('user@domain.com')
```

```
'domain.com'
```

** Create a basic function that returns True if the word 'dog' is contained in the input string. Don't worry about edge cases like a punctuation

Windows Taskbar: Type here to search, 28°C Partly cloudy, 09:24 07-10-2022

Browser tabs: Welcome to Project! Delight..., IBM, Created using Colaboratory, My Drive - Google Drive, M.Suba_Assignment_3_Python.ipynb

Address bar: colab.research.google.com/drive/1r7kz79df1HfMG_TuyEsAjyCz1Ktdpnjg

Navigation: Gmail, YouTube, Maps, TCS IONJ Digital Le..., TCS IONJ Digital Le..., I have seek this cou..., Sent Mail - aswinij..., Anna University - C..., online-gaming.web...

File Edit View Insert Runtime Tools Help Last saved at 9:16 AM

Comment Share Settings

+ Code + Text Connect Editing

'domain.com'

** Create a basic function that returns True if the word 'dog' is contained in the input string. Don't worry about edge cases like a punctuation being attached to the word dog, but do account for capitalization. **

```
[ ] def findDog(st):  
    return 'dog' in st.lower().split()
```

```
[ ] findDog('Is there a dog here?')
```

True

** Create a function that counts the number of times the word "dog" occurs in a string. Again ignore edge cases. **

```
[ ] def countDog(st):  
    count=0  
    for word in st.lower().split():  
        if word == 'dog':  
            count += 1  
    return count
```

```
[ ] countDog('This dog runs faster than the other dog dude!')
```

Windows taskbar: Type here to search, 28°C Partly cloudy, 09:26 07-10-2022

Welcome to Project! Delighti x IBM Created using Colaboratory x My Drive - Google Drive x M.Suba_Assignment_3_Pythc x

colab.research.google.com/drive/1r7kz79df1HfMG_TuyEsAjyCz1Ktdpnjg

Gmail YouTube Maps TCS IONJ Digital Le... TCS IONJ Digital Le... I have seek this cou... Sent Mail - aswiniy... Anna University - C... online-gaming.web...

M.Suba_Assignment_3_Python.ipynb ☆

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[] countDog('This dog runs faster than the other dog dude!')

2

Problem

**You are driving a little too fast, and a police officer stops you. Write a function to return one of 3 possible results: "No ticket", "Small ticket", or "Big Ticket". If your speed is 60 or less, the result is "No Ticket". If speed is between 61 and 80 inclusive, the result is "Small Ticket". If speed is 81 or more, the result is "Big Ticket". Unless it is your birthday (encoded as a boolean value in the parameters of the function) – on your birthday, your speed can be 5 higher in all cases. **

[] def caught_speeding(speed, is_birthday):

if is_birthday:

speeding = speed - 5

else:

speeding = speed

if speeding > 80:

return 'Big Ticket'

elif speeding > 60:

return 'Small Ticket'

else:

return 'No Ticket'

return speeding

Type here to search

28°C Partly cloudy ENG 09:27 07-10-2022

colab.research.google.com/drive/1r7kz79df1HfMG_TuyEsAgyCz1Ktdpnjg

M.Suba_Assignment_3_Python.ipynb

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speed can be 5 higher in all cases. *

```
[ ] def caught_speeding(speed, is_birthday):  
  
    if is_birthday:  
        speeding = speed - 5  
    else:  
        speeding = speed  
  
    if speeding > 80:  
        return 'Big Ticket'  
    elif speeding > 60:  
        return 'Small Ticket'  
    else:  
        return 'No Ticket'  
  
[ ] caught_speeding(81,False)  
  
'Big Ticket'  
  
[ ] caught_speeding(81,True)  
  
'Small Ticket'
```

Type here to search

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Welcome to Project! Delighti x IBM x Created using Colaboratory x My Drive - Google Drive x M.Suba_Assignment_3_Pythi x +

colab.research.google.com/drive/1r7kz79df1HfMG_TuyEsAjyCz1Ktdpnjg

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M.Suba_Assignment_3_Python.ipynb ☆

File Edit View Insert Runtime Tools Help Last saved at 9:16 AM

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Connect Editing

Create an employee list with basic salary values(at least 5 values for 5 employees) and using a for loop retrieve each employee salary and calculate total salary expenditure.

```
[ ] for(i=0;i<=5;i++)
    sample_dict = {
        "name": "Kelly",
        "age": 28,
        "salary": 20000,
        "city": "New york"
        "emp id": '62345' }
    key=["name", "salary"]
```

Create two dictionaries in Python:
First one to contain fields as Empid, Empname, Basicpay
Second dictionary to contain fields as DeptName, DeptId.
Combine both dictionaries.

```
[ ] def Merge(dict_1,dict_2):
    result = dict_1| dict_2
    return result
dict_1 = {'Empid': 76543, 'Empname': 'mithu', 'Basicpay': 9999}
```

Type here to search

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Windows taskbar and browser tabs are visible at the top. The browser address bar shows the Colab URL: `colab.research.google.com/drive/1r7kz79df1HfMG_TuyEsAiyCz1Ktdpnjg`.

The Colab interface title is **M.Suba_Assignment_3_Python.ipynb**. The menu bar includes File, Edit, View, Insert, Runtime, Tools, and Help. The status bar indicates "Last saved at 9:16 AM".

On the left sidebar, the "Code" tab is selected. The main editor area contains the following text and code:

Create two dictionaries in Python:

- First one to contain fields as Empid, Empname, Basicpay
- Second dictionary to contain fields as DeptName, DeptId.
- Combine both dictionaries.

```
[ ] def Merge(dict_1,dict_2):  
    result = dict_1| dict_2  
    return result  
dict_1 ={'Empid': 76543, 'Empname': 'muthu', 'Basicpay': 9000}  
dict_1 ={'DeptName': 'computer science engineering', 'DeptName': 98761,}  
dict_3 = Merge(dict_1,dict_2)  
print(dict_3)
```

The bottom status bar shows the system clock as 09:29 on 07-10-2022, and the weather as 28°C Partly cloudy.

