

## ASSIGNMENT-3

### PYTHON CODING WITH GOOGLE COLABORATORY

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```

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```

```
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    "\n",
    "  s = \"Hi there Sam!\"\n",
    "  \n",
    "***into a list. ***"
  ]
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  ]
}
```

```
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    "outputId": "cc52f0d8-2ed1-4b4d-e956-5bb332cdc2"  
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        "text/plain": [  
          "['Hi', 'there', 'dad!']"  
        ]  
      },  
      "execution_count": 3,  
      "metadata": {  
        "tags": []  
      },  
      "output_type": "execute_result"  
    }  
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    "s.split()"  
  ]  
}
```

```
},  
{  
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  "metadata": {  
    "id": "_bBNOu-785j9"  
  },  
  "source": [  
    "*** Given the variables:**\n",  
    "\n",  
    "  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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  "execution_count": null,  
  "metadata": {  
    "collapsed": true,  
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  },  
  "outputs": [],
```

```
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  "planet = \"Earth\\\"\\n",  
  "diameter = 12742\\n"  
],  
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  "metadata": {  
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  },  
  "outputs": [  
    {  
      "name": "stdout",  
      "output_type": "stream",  
      "text": [  
        "The diameter of Earth is 12742 kilometers.\\n"  
      ]  
    }  
  ],  
  "source": [  
    "print(\"The diameter of {} is {} kilometres.\".format(planet,diameter))"  
  ]  
},
```

```
{
  "cell_type": "markdown",
  "metadata": {
    "id": "QAKtN7Hh85kB"
  },
  "source": [
    "*** Given this nested list, use indexing to grab the word \"hello\" ***"
  ]
},
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  "execution_count": null,
  "metadata": {
    "collapsed": true,
    "id": "-7dzQDyK85kD"
  },
  "outputs": [],
  "source": [
    "\n",
    "lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]"
  ]
},
{
  "cell_type": "code",
  "execution_count": null,
```

```
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  "outputId": "c3417d1c-3081-4e24-8489-154cdce1b06b"
},
"outputs": [
  {
    "data": {
      "text/plain": [
        "'hello'"
      ]
    },
    "execution_count": 14,
    "metadata": {
      "tags": []
    },
    "output_type": "execute_result"
  }
],
"source": [
  "lst[3][1][2][0]"
],
{
  "cell_type": "markdown",
  "metadata": {
```



```
    "id": "9Ma7M4a185kF"
  },
  "source": [
    "*** Given this nest dictionary grab the word \"hello\". Be prepared, this will be annoying/tricky ***"
  ]
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  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "id": "vrYAxSYN85kG"
  },
  "outputs": [],
  "source": [
    "d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}"
  ]
},
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  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "id": "FIILSdm485kH",
    "outputId": "4232540d-95c2-461d-c78d-24ea62398e08"
  },
  "outputs": [
```

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

```
},  
{  
  "cell_type": "code",  
  "execution_count": null,  
  "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***"  
  ]
```

```
},  
{  
  "cell_type": "code",  
  "execution_count": null,  
  "metadata": {  
    "collapsed": true,  
    "id": "unvEAwjK85kL"  
  },  
  "outputs": [],  
  "source": [  
    "def domainGet(email):\n",  
    "    return email.split('@)[-1]"  
  ]  
},  
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  "cell_type": "code",  
  "execution_count": null,  
  "metadata": {  
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    "outputId": "4216116b-da08-45a2-9545-d6b13bcefaeb"  
  },  
  "outputs": [  
    {  
      "data": {  
        "text/plain": [
```

```

        "domain.com"
    ]
},
"execution_count": 26,
"metadata": {
    "tags": []
},
"output_type": "execute_result"
}
],
"source": [
    "domainGet('user@domain.com')"
]
},
{
    "cell_type": "markdown",
    "metadata": {
        "id": "gYydb-y085kM"
    },
    "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. \*\*\*

```

    ]
},
{

```

```
"cell_type": "code",
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"metadata": {
  "collapsed": true,
  "id": "Q4ldLGV785kM"
},
"outputs": [],
"source": [
  "def findDog(st):\n",
  "    return 'dog in st.lower().split()'
]
},
{
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  "outputId": "e7909af1-8df1-4534-fc8c-27b03d7369e5"
},
"outputs": [
  {
    "data": {
      "text/plain": [
        "True"
      ]
    }
  ]
}
```

```
    },  
    "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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    "execution_count": null,
```

```
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},
"outputs": [],
"source": [
  "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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  "metadata": {
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    "outputId": "0602a2b5-0b18-48d8-e2d4-fe644cbccf8a"
  },
  "outputs": [
    {
      "data": {
        "text/plain": [
          "2"
        ]
      }
    ]
  }
}
```



```

    ]
  },
  "execution_count": 31,
  "metadata": {
    "tags": []
  },
  "output_type": "execute_result"
}
],
"source": [
  "countDog('This dog runs faster than the other dog dude!')"
]
},
{
  "cell_type": "markdown",
  "metadata": {
    "id": "3n7jJt4k85kP"
  },
  "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. **"

]
},
{
  "cell_type": "code",
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  "metadata": {
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    "id": "nvXMkvWk85kQ"
  },
  "outputs": [],
  "source": [
    "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'"
  ]
}
```

```
]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
    "id": "BU_UZcyk85kS",
    "outputId": "699de8ef-a18c-436b-fdd9-60dc44979906"
  },
  "outputs": [
    {
      "data": {
        "text/plain": [
          "'Big Ticket'"
        ]
      },
      "execution_count": 6,
      "metadata": {
        "tags": []
      },
      "output_type": "execute_result"
    }
  ],
  "source": [
    "caught_speeding(81,False)"
  ]
}
```

```
]
},
{
  "cell_type": "code",
  "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)"
  ]
}
```

```
]
```

```
},
```

```
{
```

```
"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\"]"
```

```
],
```

```
"metadata": {
```

```
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    "\n",
    "First one to contain fields as Empid, Empname, Basicpay\n",
    "\n",
    "Second dictionary to contain fields as DeptName, DeptId.\n",
    "\n",
    "Combine both dictionaries. "
  ],
  "metadata": {
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  }
},
{
  "cell_type": "code",
  "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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```

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"version": "3.8.5"  
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,  
  
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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: Gmail, YouTube, Maps, TCS iON| Digital Le..., TCS iON| Digital Le..., I have seek this cou..., Sent Mail - aswiniy..., Anna University - C..., online-gaming.web...

### M.Suba\_Assignment\_3\_Python.ipynb

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

Comment Share Settings

+ Code + Text

Connect Editing

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 web browser window with multiple tabs. The active tab is 'M.Suba\_Assignment\_3\_Python.ipynb' on the Google Colaboratory platform. The notebook interface includes a menu bar (File, Edit, View, Insert, Runtime, Tools, Help) and a toolbar with options like 'Connect' and 'Editing'. The code editor displays the following Python code:

```
[ ] 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 Windows taskbar at the bottom shows the system clock as 09:21 on 07-10-2022, along with status icons for 'Good air' and 'ENG'.

colab.research.google.com/drive/1r7kz79df1HfMG\_TuyEsAjyCz1Ktdpnjg

M.Suba\_Assignment\_3\_Python.ipynb

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

+ 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

Welcome to Project! Delight: xIBM xCreated using Colaboratory xMy Drive - Google Drive xM.Suba\_Assignment\_3\_Pytho x

colab.research.google.com/drive/1r7kz79df1HfMG\_TuyEsAjjCz1Ktdpnjg

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

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

Comment Share Settings

+ 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

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

Code Editor: + Code + Text Connect Editing

Code:

```
'domain.com'
```

Comments:

\*\* 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?')
```

Output:

```
True
```

Comments:

\*\* 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

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M.Suba\_Assignment\_3\_Python.ipynb ☆

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Connect Editing

[ ] 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'

return 'No Ticket'

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

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

Comment Share

+ Code + Text

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

28°C Partly cloudy 09:28 07-10-2022

Welcome to Project! Delighti x IBM x Created using Colaboratory x My Drive - Google Drive x M.Suba\_Assignment\_3\_Pythi x +

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M.Suba\_Assignment\_3\_Python.ipynb ☆

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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': 'muthu', 'Basicpay': 9999}
```

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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, 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: 09:29, 07-10-2022, and weather: 28°C Partly cloudy.

