```
1 from tkinter import *
3 app = Tk()
4
5 app.title("BMI")
7 hi = Entry(app)
8 hi.insert(0, "Enter your Height")
9 hi.grid(row=0, column=0)
10
11 wi = Entry(app)
12 wi.insert(0, "Enter your Weight")
13 wi.grid(row=1, column=0)
14
15
16 def bmi():
17
     w = int(wi.get())
18
      h = int(hi.get())
19
       return int(w / (h * h) * 10000)
20
21
22 cb = Button(app, text="Calc", command=lambda: cb.config(text="BMI: " + str(bmi())))
23 cb.grid(row=2, column=0)
24 app.mainloop()
25
```

```
1 0000008::Edison Kinetoscopic Record of a Sneeze (1894)::Documentary|Short
2 0000010::La sortie des usines Lumière (1895)::Documentary|Short
3 0000012::The Arrival of a Train (1896)::Documentary|Short
4 25::The Oxford and Cambridge University Boat Race (1895)::
5 0000091::Le manoir du diable (1896)::Short|Horror
6 0000131::Une nuit terrible (1896)::Short|Comedy|Horror
7 0000417::A Trip to the Moon (1902)::Short|Action|Adventure|Comedy|Fantasy|Sci-Fi
8 0000439::The Great Train Robbery (1903)::Short|Action|Crime|Western
9 0443::Hiawatha, the Messiah of the Ojibway (1903)::
10 0000628::The Adventures of Dollie (1908)::Action|Short
11 0000833::The Country Doctor (1909)::Short|Drama
12 0001223::Frankenstein (1910)::Short|Horror|Sci-Fi
13 0001740::The Lonedale Operator (1911)::Short|Drama|Romance
14 0002101::Cleopatra (1912)::Drama|History
15 0002130::L'inferno (1911)::Adventure|Drama|Fantasy|Horror
16 0002354::Max et Jane veulent faire du théâtre (1911)::Short|Comedy|Romance
17 0002844::Fantômas - À l'ombre de la quillotine (1913)::Crime|Drama
18 0003740::Cabiria (1914)::Adventure|Drama|History
19 0003863::Dough and Dynamite (1914)::Comedy|Short
20 0004099::His Majesty, the Scarecrow of Oz (1914)::Family|Fantasy|Adventure|Comedy
21 0004100::His Musical Career (1914)::Short|Comedy
22 0004101::His New Profession (1914)::Short|Comedy
23 0004210::Laughing Gas (1914)::Short|Comedy
24 0004395::The New Janitor (1914)::Short|Comedy
25 0004413::The Ocean Waif (1916)::Short|Comedy|Drama
26 0004457::The Patchwork Girl of Oz (1914)::Adventure|Family|Fantasy
27 0004518::Recreation (1914)::Comedy|Short
28 0004546::The Rounders (1914)::Comedy|Short
29 0004936::The Bank (1915)::Comedy|Short
30 0004972::The Birth of a Nation (1915)::Drama|History|War
31 0005074::The Champion (1915)::Short|Comedy|Sport
32 0005078::The Cheat (1915)::Drama
33 0005530::L'héroïsme de Paddy (1915)::
34 0005571::A Jitney Elopement (1915)::Short|Comedy
35 0005960::Regeneration (1915)::Biography|Crime|Drama|Romance
36 0006177::The Tramp (1915)::Short|Comedy
37 0006206::Les vampires (1915)::Action|Adventure|Crime|Drama|Mystery|Thriller
38 0006333::20,000 Leagues Under the Sea (1916)::Action|Adventure|Sci-Fi
39 0006414::Behind the Screen (1916)::Short|Comedy|Romance
40 0006437::The Blacklist (1916)::Drama
41 0006684::The Fireman (1916)::Short|Comedy
42 0006689::The Floorwalker (1916)::Short|Comedy
43 0006864::Intolerance: Love's Struggle Throughout the Ages (1916)::Drama|History
44 0007145::One A.M. (1916)::Comedy|Family|Short
45 0007162::The Pawnshop (1916)::Comedy|Short
46 0007264::The Rink (1916)::Comedy|Short
47 0007340::Shoes (1916)::Drama
48 0007507::The Vagabond (1916)::Short|Comedy|Romance
49 0007832::The Cure (1917)::Short|Comedy
50 0007880::Easy Street (1917)::Short|Comedy
51 0008133::The Immigrant (1917)::Short|Comedy|Drama|Romance
52 0008395::Otets Sergiy (1918)::Biography|Drama|History
53 0009018::A Dog's Life (1918)::Short|Comedy|Drama
54 009340::The Man Who Woke Up (1918)::
55 0009678::Take a Chance (1918)::Comedy|Short
56 0009893::Die Austernprinzessin (1919)::Comedy
57 0009968::Broken Blossoms or The Yellow Man and the Girl (1919)::Drama|Romance
58 0010180::Godovshchina revolyutsii (1918)::Documentary
59 0010193::The Greatest Question (1919)::Drama
60 0010247::Herr Arnes pengar (1919)::Drama|History
61 0010258::His Royal Slyness (1920)::Comedy|Short
62 0010323::Das Cabinet des Dr. Caligari (1920)::Fantasy|Horror|Mystery|Thriller
63 0010747::Sunnyside (1919)::Comedy|Short
64 0010806::True Heart Susie (1919)::Comedy|Drama|Romance
65 0010930::Young Mr. Jazz (1919)::Comedy|Short
66 0011130::Dr. Jekyll and Mr. Hyde (1920)::Drama|Horror|Sci-Fi
67 0011267::Headin' Home (1920)::Biography|Comedy|Drama
```

```
68 0011439::The Mark of Zorro (1920)::Adventure|Romance|Western
 69 0011508::Neighbors (1920)::Short|Comedy|Romance
70 0011541::One Week (1920)::Short|Comedy
71 0011607::Prästänkan (1920)::Comedy|Drama|Horror
 72 0011656::The Scarecrow (1920)::Comedy|Short|Family
73 0011717::The Son of Tarzan (1920)::Action|Adventure
74 0011841::Way Down East (1920)::Drama|Romance
75 0011870::Within Our Gates (1920)::Drama|Romance
76 0012224::The Goat (1921)::Comedy|Short
77 0012278::The 'High Sign' (1921)::Short|Comedy
78 0012349::The Kid (1921)::Comedy|Drama|Family
79 0012364::Körkarlen (1921)::Drama|Fantasy|Horror
80 0012494::Der müde Tod (1921)::Drama|Fantasy|Thriller
81 0012532::Orphans of the Storm (1921)::Drama|History|Romance
82 0012651::Schloß Vogeloed (1921)::Crime|Drama|Horror|Mystery
83 0012675::The Sheik (1921)::Adventure|Drama|Romance
84 012844::White and Unmarried (1921)::
85 0013025::Cops (1922)::Short|Comedy|Family
86 0013086::Dr. Mabuse, der Spieler (1922)::Crime|Mystery|Thriller
87 0013099::The Electric House (1922)::Short|Comedy
88 0013140::Foolish Wives (1922)::Drama|Thriller
89 0013257::Häxan (1922)::Documentary|Fantasy|Horror
90 0013427::Nanook of the North (1922)::Documentary
91 0013442::Nosferatu (1922)::Fantasy|Horror
92 0013486::Pay Day (1922)::Comedy|Short
93 0013571::Salomé (1922)::Biography|Drama|History|Horror
94 0013626::La souriante Madame Beudet (1923)::Drama
95 0013741::Das Weib des Pharao (1922)::Drama|History
96 0013858::The Balloonatic (1923)::Short|Comedy
97 0014142::The Hunchback of Notre Dame (1923)::Drama|Horror|Romance
98 0014341::Our Hospitality (1923)::Comedy|Romance|Thriller
99 0014390::En rackarunge (1924)::Drama
100 0014417::La roue (1923)::Drama
101 0014429::Safety Last! (1923)::Comedy|Thriller
102 0014497::Souls for Sale (1923)::Comedy|Drama|Romance
103 0014532::The Ten Commandments (1923)::Biography|Drama|Fantasy
104 0014538::Three Ages (1923)::Comedy
105 0014624::A Woman of Paris: A Drama of Fate (1923)::Drama|Romance
106 0014664::Alice's Spooky Adventure (1924)::Animation|Short|Comedy
107 0014872::Entr'acte (1924)::Short
108 0014972::He Who Gets Slapped (1924)::Drama|Romance|Thriller
109 0015002::Hot Water (1924)::Comedy
110 0015016::The Iron Horse (1924)::History|Romance|Western
111 0015039::Kinoglaz (1924)::Documentary
112 0015064::Der letzte Mann (1924)::Drama
113 0015163::The Navigator (1924)::Action|Comedy|Romance
114 0015174::Die Nibelungen: Kriemhilds Rache (1924)::Adventure|Drama|Fantasy
115 0015175::Die Nibelungen: Siegfried (1924)::Adventure|Drama|Fantasy
116 0015202::Orlacs Hände (1924)::Crime|Horror|Mystery|Sci-Fi|Thriller
117 0015233::En piga bland pigor (1924)::Comedy|Drama
118 0015310::The Sea Hawk (1924)::Adventure|Drama|Romance
119 0015324::Sherlock Jr. (1924)::Action|Comedy|Romance
120 0015361::Stachka (1925)::Drama
121 0015400::The Thief of Bagdad (1924)::Adventure|Family|Fantasy|Romance
122 0015477::West of Hot Dog (1924)::Short|Western|Comedy
123 0015532::Die Abenteuer des Prinzen Achmed (1926)::Animation|Adventure|Fantasy|Romance
124 0015624::The Big Parade (1925)::Drama|Romance|War
125 0015648::Bronenosets Potyomkin (1925)::Drama|History
126 0015673::Shakhmatnaya goryachka (1925)::Comedy|Short
127 0015768::Du skal ære din hustru (1925)::Drama
128 0015772::De adelaar (1925)::Action|Comedy|Drama|History|Romance
129 0015864::The Gold Rush (1925)::Adventure|Comedy|Drama|Family
130 0015881::Greed (1924)::Drama|Thriller|Western
131 0016039::The Lost World (1925)::Adventure|Fantasy|Sci-Fi
132 0016172::Oh, Doctor! (1925)::Comedy
133 0016220::The Phantom of the Opera (1925)::Horror
134 0016230::The Pleasure Garden (1925)::Drama|Romance
```

```
135 0016332::Seven Chances (1925)::Comedy|Romance
136 0016361::Smouldering Fires (1925)::Drama
137 0016544::The Wizard of Oz (1925)::Comedy|Family|Fantasy|Adventure
139 0016654::The Black Pirate (1926)::Adventure|Action
140 0016747::Crazy Like a Fox (1926)::Short|Comedy
141 0016847::Faust: Eine deutsche Volkssage (1926)::Drama|Fantasy|Horror
142 0016903::45 Minutes from Hollywood (1926)::Short|Comedy
143 016954::Hell's Four Hundred (1926)::
144
```

```
1 lst = map(int, input().split())
3 for i in lst:
4    if i * i % 8 == 0:
5
          print(i)
6
```

```
1 from requests import get
2 from bs4 import BeautifulSoup
5 def helper(uri="/chart/top"):
       return get("https://www.imdb.com" + uri, headers={"User-Agent": "Mozilla"}).content
7
9 soup = BeautifulSoup(helper(), "html.parser")
11 movies = soup.select(".cli-children")
12 for movie in movies[:10]:
13
      print(movie.select("h3")[0].text) # NAME
14
      print(movie.select("span")[0].text) # YEAR
15
      sumry = BeautifulSoup(
          helper(movie.select("a")[0].get("href")), "html.parser"
16
17
      ) # LINK for PLOT
      print(sumry.find("span", attrs={"data-testid": "plot-xl"}).text) # PLOT
18
19
       print()
20
```

File - C:\Users\Das\Pycharm\Projects\Python Lab\count.py

```
1 str_ = input("Enter a string: ")
2 count = dict()
4 for i in str_:
5
     if i in count:
          count[i] += 1
7
     else:
8
         count[i] = 1
10 for i in count.items():
11
     print(f"{i[0]} : {i[1]}")
12
```

	File - C:\Users\Das\Pycharm\Projects\Python Lab\data.txt		
ſ	1 Hello world		
l	2 Test File		
	3 Bye world		
l	3 bye world		
l			
l			
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-1			

```
1 from turtle import *
3 n_sides = int(input("How many sides do you want: "))
4 s_side = int(input("Size of side: "))
6 color("green")
8 fillcolor("red")
10 begin_fill()
11
12 for _ in range(n_sides):
13
      fd(s_side)
14
      lt(360 / n_sides)
15
16 end_fill()
17
18 mainloop()
19
```



```
1 n_hour = int(input("Enter number of hours: "))
2 n_wage = int(input("Enter number of wage/hr: "))
3 mul = 1
5 if n_hour < 40:
     mul = 1
7 elif n_hour < 60:
8 mul = 1.5
9 else:
10
     mul = 2
11
12 print(n_hour * n_wage * mul)
```

```
1 class BankAccount:
       def __init__(self, balance):
3
           self.balance = balance
4
5
       def withdraw(self, amount):
           if amount > self.balance:
6
               print("Insufficient funds")
7
8
               return
9
10
           self.balance -= amount
11
           self.vbalance()
12
13
      def deposit(self, amount):
14
           self.balance += amount
15
           self.vbalance()
16
17
      def vbalance(self):
18
          print("\nBalance: ", self.balance)
19
           print()
20
           return self.balance
21
22
23 bank = BankAccount(int(input("Enter balance: ")))
24 while True:
      choice = input("Enter choice\n1. Withdraw\n2. Deposit\n3. Balance\n4. Exit: ")
25
26
       if choice == "1":
27
           amount = int(input("Enter amount: "))
28
          bank.withdraw(amount)
29
      elif choice == "2":
30
           amount = int(input("Enter amount: "))
31
           bank.deposit(amount)
       elif choice == "3":
32
          bank.vbalance()
33
34
      elif choice == "4":
35
          break
36
       else:
          print("Invalid choice")
37
38
```

```
"cells": [
3
    {
4
     "cell_type": "code",
5
     "id": "initial_id",
6
     "metadata": {
7
      "collapsed": true,
8
      "ExecuteTime": {
9
      "end_time": "2024-08-10T11:44:49.967184Z",
      "start_time": "2024-08-10T11:44:49.962787Z"
10
11
      }
12
     },
13
     "source": "print \"HI\"",
14
     "outputs": [
15
       "ename": "SyntaxError",
16
       "evalue": "Missing parentheses in call to 'print'. Did you mean print(...)? (
17
  205863140.py, line 1)",
       "output_type": "error",
18
19
       "traceback": [
        20
      u001B[1;31m:\u001B[0m Missing parentheses in call to 'print'. Did you mean print(...)?\n"
21
      ]
22
      }
23
     ],
24
     "execution_count": 2
25
    },
26
    {
27
     "metadata": {
      "ExecuteTime": {
28
       "end_time": "2024-08-10T11:44:55.428090Z",
29
       "start_time": "2024-08-10T11:44:55.405372Z"
30
31
      }
32
     },
     "cell_type": "code",
33
34
     "source": [
      "lst = [1,2,3]\n",
35
36
      "print(lst[5])"
37
     "id": "70dd73560a148e15",
38
39
     "outputs": [
40
       "ename": "IndexError",
41
       "evalue": "list index out of range",
42
43
       "output_type": "error",
44
       "traceback": [
45
       "\u001B[1;31m
                  ------\u001B[0m",
        "\u001B[1;31mIndexError\u001B[0m
                                                                  Traceback (most
46
  recent call last)",
47
        "Cell \u001B[1;32mIn[3], line 2\u001B[0m\n\u001B[0;32m
                                                              1\u001B[0m lst \u001B[
  38;5;241m=\u001B[39m [\u001B[38;5;241m1\u001B[39m,\u001B[38;5;241m2\u001B[39m,\u001B[38;5
  ;241m3\u001B[39m]\n\u001B[1;32m----> 2\u001B[0m \u001B[38;5;28mprint\u001B[39m(\u001B[
  43mlst\u001B[49m\u001B[43m[\u001B[49m\u001B[38;5;241;43m5\u001B[39;49m\u001B[43m]\u001B[
  49m)\n",
        "\u001B[1;31mIndexError\u001B[0m: list index out of range"
48
49
       ]
50
      }
51
52
     "execution_count": 3
53
    },
54
    {
55
     "metadata": {
      "ExecuteTime": {
56
       "end_time": "2024-08-10T11:44:59.700925Z",
57
58
       "start_time": "2024-08-10T11:44:59.688850Z"
```

```
59
    60
                         "cell_type": "code",
   61
                         "source": "int(\"Hi\")".
   62
                         "id": "b377d4c55f21db42",
   63
   64
                          "outputs": [
   65
                                 "ename": "ValueError",
   66
                                 "evalue": "invalid literal for int() with base 10: 'Hi'",
   67
                                 "output_type": "error",
   68
                                 "traceback": [
    69
                                   "\u001B[1;31m
   70
                                                                                         -----\u001B[0m",
                               "\u001B[1;31mValueError\u001B[0m
                                                                                                                                                                                                                                                                                Traceback (most
              recent call last)",
                              "Cell \u001B[1;32mIn[4], line 1\u001B[0m\n\u001B[1;32m----> 1\u001B[0m \u001B[38;5
              ; 28; 43 \\ \texttt{mint} \\ \texttt{u001B} \\ \texttt{[39;49m} \\ \texttt{u0001B} \\ \texttt{[43m(\u001B[349m)\u001B[38;5;124;43m)"\u0001B[39;49m)\u0001B[38;5;124;43m]"\u0001B[39;49m)\u0001B[38;5;124;43m]" \\ \texttt{u0001B} \\ \texttt{[39;49m]} \\ \texttt{u0001B} \\ \texttt{[30,10]} \\ \texttt{u0001B} \\ \texttt{u0
              5;124;43mHi\u001B[39;49m\u001B[38;5;124;43m\"\u001B[39;49m\u001B[43m)\u001B[49m\n",
    73
                                     "\u001B[1;31mValueError\u001B[0m: invalid literal for int() with base 10: 'Hi'"
   74
                                 1
   75
                            }
    76
                         ],
   77
                          "execution_count": 4
   78
                     },
   79
                         "metadata": {
   80
   81
                            "ExecuteTime": {
                                "end_time": "2024-08-10T11:45:12.726459Z",
   82
   83
                                 "start_time": "2024-08-10T11:45:12.714546Z"
   84
                            }
   85
                         },
                         "cell_type": "code",
   86
                         "source": "lst[\"1\"]"
   87
                         "id": "9dd90829f90e23c9",
   88
   89
                         "outputs": [
   90
   91
                                "ename": "TypeError",
                                 "evalue": "list indices must be integers or slices, not str",
   92
   93
                                 "output_type": "error",
                                 "traceback": [
   94
   95
                                   "\u001B[1;31m
                                                                                                                                                                      -----\u001B[0m",
                                 "\u001B[1;31mTypeError\u001B[0m
                                                                                                                                                                                                                                                                                Traceback (most
                                "Cell \u001B[1;32mIn[5], line 1\u001B[0m\n\u001B[1;32m----> 1\u001B[0m \u001B[
              43mlst\\ \begin{tabular}{l} 43mlv0001B[49m\\ \begin{tabular}{l} 0001B[49m\\ \begin{tabular}{l} 0001B[38;5;124;43m\\ \begin{tabular}{l} 0001B[39;49m\\ \begin{tabular}{l} 0001B[38;5;124;43m\\ \begin{tabular}{l} 0001B[49m\\ \begin{tabular}{l} 0001B[49m] 
              43m1\u001B[39;49m\u001B[38;5;124;43m\"\u001B[39;49m\u001B[43m]\u001B[49m\n",
                                   "\u001B[1;31mTypeError\u001B[0m: list indices must be integers or slices, not str"
   98
  99
                            }
100
101
                         ],
102
                         "execution_count": 5
103
                    }
104
                 ],
105
                  "metadata": {
106
                      "kernelspec": {
                         "display_name": "Python 3",
107
                         "language": "python",
108
                         "name": "python3"
109
110
                      },
111
                      "language_info": {
112
                         "codemirror_mode": {
                             "name": "ipython",
113
                             "version": 2
114
115
                         "file_extension": ".py",
116
                         "mimetype": "text/x-python",
117
```



```
118 "name": "python",
119 "nbconvert_exporter": "python",
120 "pygments_lexer": "ipython2",
121 "version": "2.7.6"
121 '
122 }
123 },
124 "nbformat": 4,
125 "nbformat_minor": 5
126 }
127
```

```
1 dictmap = {
       "CBI": "Central Bureau of Investigation",
       "FBI": "Financial Bureau of Investigation",
3
       "NIA": "National Investigation Agency",
 4
       "SSB": "South State Bureau of Investigation",
 5
       "WPA": "West State Agency",
 6
7 }
8
9 print(dictmap)
10
11 dictmap["BSE"] = "Bombay Stock Exchange"
12
13 print(dictmap)
14
15 dictmap["SSB"] = "Social Security Admin"
16
17 print(dictmap)
18
19 del dictmap["CBI"]
20 del dictmap["WPA"]
21
22 print(dictmap)
23
```

```
1 from turtle import *
3 angles = [0, 120, 240]
4 colors = ["red", "blue", "magenta"]
7 def shift_turtle(len_, a):
       lt(a)
8
9
       fd(len_)
10
       rt(a)
11
12
13 def draw_triangle(length, depth, index):
14
       penup()
15
       if depth == 0:
16
           pendown()
17
           for i in range(3):
18
               fd(length)
19
               lt(120)
20
           penup()
21
           return
22
23
       for ind, angle in enumerate(angles):
24
           color(colors[ind])
25
           draw_triangle(length / 2, depth - 1, index - 1)
           shift_turtle(length / 2, angle)
26
27
28
29 draw_triangle(100, 2, 1)
30 mainloop()
31
```

```
1 def search(arr, key):
      if len(arr) == 0:
3
          return -1
4
5
      mid = len(arr) // 2
6
7
      if arr[mid] == key:
8
          return mid
9
      elif arr[mid] < key:</pre>
10
          val = search(arr[mid + 1 :], key)
          if val == -1:
11
12
              return val
13
          return mid + val + 1
14
     else:
15
          return search(arr[:mid], key)
16
17
18 for i in range(11):
19
       print(search([0, 1, 2, 3, 4, 5, 6, 7, 8, 9], i))
20
```

```
1 def merge(arr1, arr2):
       arro = []
       l = r = 0
3
4
       while l < len(arr1) and r < len(arr2):</pre>
5
6
           if arr1[l] < arr2[r]:
7
               arro.append(arr1[l])
8
               l += 1
9
           else:
10
               arro.append(arr2[r])
11
               r += 1
12
13
       arro.extend(arr1[l:])
14
       arro.extend(arr2[r:])
15
16
       return arro
17
18
19 def mergesort(arr):
20
       if len(arr) <= 1:
21
           return arr
22
23
       mid = len(arr) // 2
24
       left = arr[:mid]
25
       right = arr[mid:]
26
27
       l_sorted = mergesort(left)
28
       r_sorted = mergesort(right)
29
30
       return merge(l_sorted, r_sorted)
31
32
33 print(mergesort([3, 4, 5, 6, 7, 8, 9, 2, 1]))
```

```
1 from turtle import *
3
 4 def snowflake(length, depth):
5
       if depth == 0:
6
           fd(length)
7
           return
8
9
      snowflake(length, depth - 1)
10
       lt(<mark>60</mark>)
11
       snowflake(length, depth - 1)
12
       rt(120)
13
       snowflake(length, depth - 1)
14
       lt(60)
15
       snowflake(length, depth - 1)
16
17
18 for _ in range(3):
19
       snowflake(20, 2)
20
       rt(120)
21
22 mainloop()
23
```

```
File - C:\Users\Das\Pycharm\Projects\Python Lab\bikerental.py
 1 # hr: 100
 2 # daily: 500
 3 # week: 2500
 4 # n : 3 - 5 : 0.7x
 6 fare_list = [100, 500, 2500]
 7 fare = {
       "Hourly": fare_list[0],
 8
       "Daily": fare_list[1],
       "Weekly": fare_list[2],
10
11 }
12
13 bikes = ["MTB", "Road", "eV"]
14
15 while True:
       ch = input("Enter a choice\n1. View fare\n2. View menu\n3. Buy\n4. Exit: ")
16
17
       if ch == "4":
18
           break
19
       if ch == "1":
20
21
           for i in fare.items():
22
               print(f"{i[0]} : {i[1]}")
23
           print()
       elif ch == "2":
24
25
           for i in bikes:
26
               print(i)
27
           print()
       elif ch == "3":
28
29
           n_bikes = int(input("Enter number of bikes: "))
30
           n_fare = int(input("Enter type of fare\n1. Hourly\n2. Daily\n3. Weekly: "))
31
           mul = 1
32
           if 3 < n_bikes and n_bikes < 5:</pre>
33
               print("Family discount applied (30% off)")
34
               mul = 0.7
35
           print("Amount is", fare_list[n_fare - 1] * mul * n_bikes, "/hr")
36
       else:
37
           print("Invalid choice")
38
```

File - C:\Users\Das\Pycharm\Projects\Python Lab\fileCounter.py

```
1 fileName = input("Enter a file name: ")
3 with open(fileName) as file:
4
     l_counter = 0
5
      ch_counter = 0
      word_counter = 0
6
7
      for line in file:
8
          l_counter += 1
9
          ch_counter += len(line)
10
          word_counter += len(line.strip().split())
11
12 print(l_counter)
13 print(ch_counter)
14 print(word_counter)
15
```

```
File - C:\Users\Das\Pycharm\Projects\Python Lab\movieHadoop.py
 1 from mrjob.job import MRJob
 2 from itertools import combinations
 5 class MRMovieHadoop(MRJob):
 7
       def mapper(self, _, line):
 8
            __, movie, genre = line.split("::")
 9
           yield genre, movie
10
       def reducer(self, genre, movies):
11
12
           for i, j in combinations(movies, 2):
13
               if i == j:
14
                   continue
15
               yield (i, j), len(set(i.lower()).intersection(set(j.lower())))
16
17
18 MRMovieHadoop.run()
19
```

```
1 from requests import get
2 from bs4 import BeautifulSoup
4 html = get("https://en.wikipedia.org/wiki/Sachin_Tendulkar").content
6 bs = BeautifulSoup(html, "html.parser")
8 images = bs.find_all("img")
10 ast = set()
11 for i in images:
12
     ast.add(i.get("src"))
13
14 for i in ast:
15
     print(i)
16
```