**ASSIGNMENT TWO**

1. **Create a text file that has your full name, and write code to read it and extract first name, middle name and last name.**
2. **Using the library os, print your local file path on screen.**
3. **Extraction of baby name from file using regex not using built-in libraries, create a sort algorithm, implement binary search**

Microsoft Windows [Version 10.0.22000.2538]

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C:\Users\HP>cd C:\Users\HP\OneDrive\Desktop\PYTHON PROGRAMMS

C:\Users\HP\OneDrive\Desktop\PYTHON PROGRAMMS>Baby\_Name\_script.py

First Name: ARIAHU

Middle Name: CHINWE

Last Name: HENRIETHA

Local File Path: C:\Users\HP\OneDrive\Desktop\PYTHON PROGRAMMS\full\_name.txt

Sorted Baby Names: ['1', '10', '100', '1000', '101', '102', '103', '104', '105', '106', '107', '108', '109', '11', '110', '111', '112', '113', '114', '115', '116', '117', '118', '119', '12', '120', '121', '122', '123', '124', '125', '126', '127', '128', '129', '13', '130', '131', '132', '133', '134', '135', '136', '137', '138', '139', '14', '140', '141', '142', '143', '144', '145', '146', '147', '148', '149', '15', '150', '151', '152', '153', '154', '155', '156', '157', '158', '159', '16', '160', '161', '162', '163', '164', '165', '166', '167', '168', '169', '17', '170', '171', '172', '173', '174', '175', '176', '177', '178', '179', '18', '180', '181', '182', '183', '184', '185', '186', '187', '188', '189', '19', '190', '191', '192', '193', '194', '195', '196', '197', '198', '199', '2', '20', '200', '201', '202', '203', '204', '205', '206', '207', '208', '209', '21', '210', '211', '212', '213', '214', '215', '216', '217', '218', '219', '22', '220', '221', '222', '223', '224', '225', 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'Abby', 'Abdiel', 'Abdullah', 'Abel', 'Abigail', 'Abigayle', 'Abraham', 'Abram', 'Abril', 'Ace', 'Ada', 'Adalyn', 'Adalynn', 'Adam', 'Adan', 'Addison', 'Addisyn', 'Addyson', 'Adelaide', 'Adeline', 'Adelyn', 'Aden', 'Adison', 'Aditya', 'Adolfo', 'Adonis', 'Adrian', 'Adriana', 'Adrianna', 'Adriel', 'Adrien', 'Adrienne', 'Adyson', 'Aedan', 'Agustin', 'Ahmad', 'Ahmed', 'Aidan', 'Aiden', 'Aidyn', 'Aileen', 'Aimee', 'Ainsley', 'Aisha', 'Aiyana', 'Akira', 'Alaina', 'Alan', 'Alana', 'Alani', 'Alanna', 'Alannah', 'Alayna', 'Albert', 'Alberto', 'Alden', 'Aldo', 'Aleah', 'Alec', 'Aleena', 'Alejandra', 'Alejandro', 'Alena', 'Alessandra', 'Alessandro', 'Alex', 'Alexa', 'Alexander', 'Alexandra', 'Alexandria', 'Alexia', 'Alexis', 'Alexus', 'Alexzander', 'Alfonso', 'Alfred', 'Alfredo', 'Ali', 'Alia', 'Aliana', 'Alice', 'Alicia', 'Alijah', 'Alina', 'Alisa', 'Alisha', 'Alison', 'Alissa', 'Alisson', 'Alivia', 'Aliya', 'Aliyah', 'Aliza', 'Allan', 'Allen', 'Allie', 'Allison', 'Allisson', 'Ally', 'Allyson', 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'Chase', 'Chasity', 'Chaya', 'Chaz', 'Chelsea', 'Cherish', 'Cheyanne', 'Cheyenne', 'Chloe', 'Chris', 'Christian', 'Christina', 'Christine', 'Christopher', 'Ciara', 'Cierra', 'Cindy', 'Claire', 'Clara', 'Clare', 'Clarence', 'Clarissa', 'Clark', 'Claudia', 'Clay', 'Clayton', 'Clinton', 'Cloe', 'Coby', 'Cody', 'Cohen', 'Colby', 'Cole', 'Coleman', 'Colin', 'Collin', 'Colt', 'Colten', 'Colton', 'Conner', 'Connor', 'Conor', 'Conrad', 'Cooper', 'Cora', 'Corbin', 'Cordell', 'Corey', 'Corinne', 'Cornelius', 'Cortez', 'Cory', 'Courtney', 'Craig', 'Cristal', 'Cristian', 'Cristina', 'Cristofer', 'Cristopher', 'Cruz', 'Crystal', 'Cullen', 'Curtis', 'Cynthia', 'Cyrus', 'Dahlia', 'Daisy', 'Dakota', 'Dale', 'Dalia', 'Dallas', 'Dalton', 'Damari', 'Damarion', 'Damaris', 'Damian', 'Damien', 'Damion', 'Damon', 'Dana', 'Dane', 'Dangelo', 'Dania', 'Danica', 'Daniel', 'Daniela', 'Daniella', 'Danielle', 'Danika', 'Danna', 'Danny', 'Dante', 'Daphne', 'Darian', 'Darien', 'Dario', 'Darion', 'Darius', 'Darnell', 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'Gauge', 'Gaven', 'Gavin', 'Gavyn', 'Gemma', 'Genesis', 'Genevieve', 'George', 'Georgia', 'Geovanni', 'Gerald', 'Gerardo', 'German', 'Gia', 'Giada', 'Giana', 'Giancarlo', 'Gianna', 'Gianni', 'Gideon', 'Gilbert', 'Gilberto', 'Gillian', 'Gina', 'Giovani', 'Giovanna', 'Giovanni', 'Giovanny', 'Giselle', 'Gisselle', 'Giuliana', 'Glenn', 'Gloria', 'Gordon', 'Grace', 'Gracelyn', 'Gracie', 'Grady', 'Graham', 'Grant', 'Grayson', 'Gregory', 'Greta', 'Gretchen', 'Greyson', 'Griffin', 'Guadalupe', 'Guillermo', 'Gunnar', 'Gunner', 'Gustavo', 'Gwendolyn', 'Hadassah', 'Hadley', 'Haiden', 'Hailee', 'Hailey', 'Hailie', 'Haleigh', 'Haley', 'Halle', 'Hallie', 'Hamza', 'Hana', 'Hanna', 'Hannah', 'Harley', 'Harmony', 'Harold', 'Harper', 'Harrison', 'Harry', 'Hassan', 'Haven', 'Hayden', 'Haylee', 'Hayley', 'Haylie', 'Hazel', 'Heath', 'Heather', 'Heaven', 'Hector', 'Heidi', 'Heidy', 'Helen', 'Helena', 'Henry', 'Hezekiah', 'Hillary', 'Holden', 'Holly', 'Hope', 'Houston', 'Howard', 'Hudson', 'Hugh', 'Hugo', 'Humberto', 'Hunter', 'Ian', 'Ibrahim', 'Ignacio', 'Iliana', 'Imani', 'Immanuel', 'India', 'Ingrid', 'Ireland', 'Irene', 'Iris', 'Irvin', 'Isaac', 'Isabel', 'Isabela', 'Isabell', 'Isabella', 'Isabelle', 'Isai', 'Isaiah', 'Isaias', 'Ishaan', 'Isiah', 'Isis', 'Isla', 'Ismael', 'Israel', 'Issac', 'Itzel', 'Ivan', 'Ivy', 'Iyana', 'Izabella', 'Izabelle', 'Izaiah', 'Izayah', 'Jabari', 'Jace', 'Jacey', 'Jack', 'Jackson', 'Jacob', 'Jacoby', 'Jacqueline', 'Jacquelyn', 'Jada', 'Jade', 'Jaden', 'Jadiel', 'Jadon', 'Jadyn', 'Jaeden', 'Jaelyn', 'Jaelynn', 'Jagger', 'Jaida', 'Jaiden', 'Jaidyn', 'Jaime', 'Jair', 'Jairo', 'Jakayla', 'Jake', 'Jakob', 'Jakobe', 'Jalen', 'Jaliyah', 'Jamal', 'Jamar', 'Jamarcus', 'Jamari', 'Jamarion', 'James', 'Jameson', 'Jamie', 'Jamir', 'Jamison', 'Jamiya', 'Jamya', 'Jan', 'Janae', 'Jane', 'Janelle', 'Janessa', 'Janet', 'Janiah', 'Janiya', 'Janiyah', 'Jaquan', 'Jaqueline', 'Jared', 'Jaron', 'Jarrett', 'Jase', 'Jasiah', 'Jaslene', 'Jaslyn', 'Jasmin', 'Jasmine', 'Jason', 'Jasper', 'Javier', 'Javion', 'Javon', 'Jax', 'Jaxon', 'Jaxson', 'Jay', 'Jayce', 'Jaycee', 'Jayda', 'Jaydan', 'Jayden', 'Jaydin', 'Jaydon', 'Jayla', 'Jaylah', 'Jaylan', 'Jaylee', 'Jayleen', 'Jaylen', 'Jaylene', 'Jaylin', 'Jaylon', 'Jaylyn', 'Jaylynn', 'Jayson', 'Jayvion', 'Jayvon', 'Jazlene', 'Jazlyn', 'Jazlynn', 'Jazmin', 'Jazmine', 'Jazmyn', 'Jean', 'Jefferson', 'Jeffery', 'Jeffrey', 'Jenna', 'Jennifer', 'Jenny', 'Jensen', 'Jeramiah', 'Jeremiah', 'Jeremy', 'Jerimiah', 'Jermaine', 'Jerome', 'Jerry', 'Jesse', 'Jessica', 'Jessie', 'Jesus', 'Jett', 'Jewel', 'Jillian', 'Jimena', 'Jimmy', 'Joanna', 'Joaquin', 'Jocelyn', 'Jocelynn', 'Joe', 'Joel', 'Joey', 'Johan', 'Johanna', 'John', 'Johnathan', 'Johnathon', 'Johnny', 'Jolie', 'Jon', 'Jonah', 'Jonas', 'Jonathan', 'Jonathon', 'Jordan', 'Jorden', 'Jordin', 'Jordon', 'Jordyn', 'Jorge', 'Jose', 'Joselyn', 'Joseph', 'Josephine', 'Josh', 'Joshua', 'Josiah', 'Josie', 'Joslyn', 'Josue', 'Journey', 'Jovan', 'Jovani', 'Jovanni', 'Jovanny', 'Jovany', 'Joy', 'Joyce', 'Juan', 'Judah', 'Jude', 'Judith', 'Julia', 'Julian', 'Juliana', 'Julianna', 'Julianne', 'Julie', 'Julien', 'Juliet', 'Juliette', 'Julio', 'Julissa', 'Julius', 'June', 'Junior', 'Justice', 'Justin', 'Justine', 'Justus', 'Kade', 'Kaden', 'Kadence', 'Kadin', 'Kadyn', 'Kaeden', 'Kael', 'Kaelyn', 'Kai', 'Kaia', 'Kaiden', 'Kaila', 'Kailee', 'Kailey', 'Kailyn', 'Kaitlin', 'Kaitlyn', 'Kaitlynn', 'Kaiya', 'Kale', 'Kaleb', 'Kaleigh', 'Kaley', 'Kali', 'Kaliyah', 'Kallie', 'Kamari', 'Kamden', 'Kameron', 'Kamila', 'Kamora', 'Kamren', 'Kamron', 'Kamryn', 'Kane', 'Kara', 'Kareem', 'Karen', 'Karina', 'Karissa', 'Karla', 'Karlee', 'Karley', 'Karli', 'Karlie', 'Karly', 'Karma', 'Karson', 'Karsyn', 'Karter', 'Kasen', 'Kasey', 'Kash', 'Kason', 'Kassandra', 'Kassidy', 'Kate', 'Katelyn', 'Katelynn', 'Katherine', 'Kathleen', 'Kathryn', 'Kathy', 'Katie', 'Katrina', 'Kaya', 'Kayden', 'Kaydence', 'Kayla', 'Kaylah', 'Kaylee', 'Kayleigh', 'Kaylen', 'Kayley', 'Kaylie', 'Kaylin', 'Kaylyn', 'Kaylynn', 'Keagan', 'Keaton', 'Keegan', 'Keely', 'Keenan', 'Keira', 'Keith', 'Kellen', 'Kelly', 'Kelsey', 'Kelsie', 'Kelton', 'Kelvin', 'Kendal', 'Kendall', 'Kendra', 'Kendrick', 'Kenley', 'Kenna', 'Kennedi', 'Kennedy', 'Kenneth', 'Kenny', 'Kenya', 'Kenyon', 'Kenzie', 'Keon', 'Keshawn', 'Kevin', 'Keyla', 'Keyon', 'Khalil', 'Khloe', 'Kian', 'Kiana', 'Kianna', 'Kiara', 'Kiera', 'Kieran', 'Kierra', 'Kiersten', 'Kiley', 'Killian', 'Kimberly', 'Kimora', 'King', 'Kingston', 'Kinley', 'Kinsley', 'Kira', 'Kirsten', 'Kobe', 'Kody', 'Koen', 'Kolby', 'Kole', 'Kolten', 'Kolton', 'Konner', 'Konnor', 'Korbin', 'Krish', 'Krista', 'Kristen', 'Kristian', 'Kristin', 'Kristina', 'Kristopher', 'Krystal', 'Kyan', 'Kyla', 'Kylan', 'Kyle', 'Kylee', 'Kyleigh', 'Kyler', 'Kylie', 'Kymani', 'Kyra', 'Kyson', 'Lacey', 'Laci', 'Laila', 'Lailah', 'Lainey', 'Lamar', 'Lamont', 'Lana', 'Lance', 'Landen', 'Landin', 'Landon', 'Landyn', 'Lane', 'Laney', 'Lara', 'Larissa', 'Larry', 'Laura', 'Laurel', 'Lauren', 'Lauryn', 'Lawrence', 'Lawson', 'Layla', 'Laylah', 'Layne', 'Layton', 'Lea', 'Leah', 'Leandro', 'Leanna', 'Lee', 'Leia', 'Leila', 'Leilani', 'Leland', 'Lena', 'Lennon', 'Leo', 'Leon', 'Leonard', 'Leonardo', 'Leonel', 'Leonidas', 'Leroy', 'Leslie', 'Lesly', 'Leticia', 'Levi', 'Lewis', 'Lexi', 'Lexie', 'Leyla', 'Lia', 'Liam', 'Liana', 'Libby', 'Liberty', 'Lila', 'Lilah', 'Lilia', 'Lilian', 'Liliana', 'Lilianna', 'Lillian', 'Lilliana', 'Lillianna', 'Lillie', 'Lilly', 'Lily', 'Lilyana', 'Lina', 'Lincoln', 'Linda', 'Lindsay', 'Lindsey', 'Lisa', 'Litzy', 'Livia', 'Lizbeth', 'Lizeth', 'Logan', 'Lola', 'London', 'Londyn', 'Lorelai', 'Lorelei', 'Lorena', 'Lorenzo', 'Louis', 'Luca', 'Lucas', 'Lucia', 'Lucian', 'Luciana', 'Luciano', 'Lucille', 'Lucy', 'Luis', 'Luka', 'Lukas', 'Luke', 'Luna', 'Luz', 'Lydia', 'Lyla', 'Lyric', 'Macey', 'Maci', 'Macie', 'Mackenzie', 'Macy', 'Madalyn', 'Madalynn', 'Madden', 'Maddison', 'Maddox', 'Madeleine', 'Madeline', 'Madelyn', 'Madelynn', 'Madilyn', 'Madilynn', 'Madison', 'Madisyn', 'Madyson', 'Maeve', 'Magdalena', 'Maggie', 'Maia', 'Makai', 'Makaila', 'Makayla', 'Makena', 'Makenna', 'Makenzie', 'Makhi', 'Malachi', 'Malakai', 'Malaki', 'Malcolm', 'Maleah', 'Malia', 'Malik', 'Maliyah', 'Mallory', 'Manuel', 'Mara', 'Marc', 'Marcel', 'Marcelo', 'Marco', 'Marcos', 'Marcus', 'Mareli', 'Marely', 'Maren', 'Margaret', 'Maria', 'Mariah', 'Mariam', 'Mariana', 'Marianna', 'Maribel', 'Marie', 'Mariela', 'Marilyn', 'Marin', 'Marina', 'Mario', 'Marisa', 'Marisol', 'Marissa', 'Maritza', 'Mariyah', 'Mark', 'Markus', 'Marlee', 'Marlene', 'Marley', 'Marlie', 'Marlon', 'Marques', 'Marquis', 'Marquise', 'Marshall', 'Martha', 'Martin', 'Marvin', 'Mary', 'Maryjane', 'Mason', 'Mateo', 'Mathew', 'Mathias', 'Matias', 'Matilda', 'Matteo', 'Matthew', 'Matthias', 'Mattie', 'Maurice', 'Mauricio', 'Maverick', 'Max', 'Maxim', 'Maximilian', 'Maximillian', 'Maximo', 'Maximus', 'Maxwell', 'Maya', 'Mayra', 'Mckayla', 'Mckenna', 'Mckenzie', 'Mckinley', 'Meadow', 'Megan', 'Meghan', 'Mekhi', 'Melanie', 'Melany', 'Melina', 'Melissa', 'Melody', 'Melvin', 'Memphis', 'Mercedes', 'Meredith', 'Messiah', 'Mia', 'Miah', 'Micaela', 'Micah', 'Michael', 'Michaela', 'Micheal', 'Michelle', 'Miguel', 'Mikaela', 'Mikayla', 'Mike', 'Mila', 'Milagros', 'Miles', 'Miley', 'Milo', 'Milton', 'Mina', 'Mira', 'Miracle', 'Miranda', 'Mireya', 'Miriam', 'Misael', 'Mitchell', 'Miya', 'Mohamed', 'Mohammad', 'Mohammed', 'Moises', 'Mollie', 'Molly', 'Monica', 'Monique', 'Monserrat', 'Morgan', 'Moriah', 'Moses', 'Moshe', 'Muhammad', 'Mya', 'Myah', 'Myla', 'Mylee', 'Myles', 'Mylie', 'Nadia', 'Naima', 'Nancy', 'Naomi', 'Nash', 'Nasir', 'Natalee', 'Natalia', 'Natalie', 'Nataly', 'Natalya', 'Natasha', 'Nathalia', 'Nathalie', 'Nathaly', 'Nathan', 'Nathanael', 'Nathanial', 'Nathaniel', 'Nathen', 'Nayeli', 'Nehemiah', 'Neil', 'Nelson', 'Nevaeh', 'Neveah', 'Nia', 'Nicholas', 'Nick', 'Nickolas', 'Nico', 'Nicolas', 'Nicole', 'Nigel', 'Nikhil', 'Niko', 'Nikolai', 'Nikolas', 'Nina', 'Noah', 'Noe', 'Noel', 'Noelle', 'Noemi', 'Nola', 'Nolan', 'Nora', 'Norah', 'Nyasia', 'Nyla', 'Nylah', 'Octavio', 'Odin', 'Olive', 'Oliver', 'Olivia', 'Omar', 'Omari', 'Orion', 'Orlando', 'Oscar', 'Osvaldo', 'Oswaldo', 'Owen', 'Pablo', 'Paige', 'Paisley', 'Paityn', 'Paloma', 'Pamela', 'Paola', 'Paris', 'Parker', 'Patience', 'Patricia', 'Patrick', 'Paul', 'Paula', 'Paulina', 'Paxton', 'Payten', 'Payton', 'Pedro', 'Penelope', 'Perla', 'Peter', 'Peyton', 'Philip', 'Phillip', 'Phoebe', 'Phoenix', 'Pierce', 'Pierre', 'Piper', 'Porter', 'Pranav', 'Precious', 'Presley', 'Preston', 'Prince', 'Princess', 'Priscilla', 'Quentin', 'Quincy', 'Quinn', 'Quinten', 'Quintin', 'Quinton', 'Rachael', 'Rachel', 'Raegan', 'Raelynn', 'Rafael', 'Raiden', 'Raina', 'Ralph', 'Ramiro', 'Ramon', 'Randall', 'Randy', 'Raphael', 'Raquel', 'Rashad', 'Raul', 'Raven', 'Ray', 'Rayan', 'Raymond', 'Rayna', 'Rayne', 'Reagan', 'Rebecca', 'Rebekah', 'Reece', 'Reed', 'Reese', 'Regan', 'Regina', 'Reginald', 'Reid', 'Reilly', 'Reina', 'Remington', 'Rene', 'Renee', 'Reuben', 'Rex', 'Rey', 'Reyna', 'Reynaldo', 'Rhett', 'Rhianna', 'Rhys', 'Ricardo', 'Richard', 'Ricky', 'Rigoberto', 'Rihanna', 'Riley', 'Rishi', 'River', 'Riya', 'Robert', 'Roberto', 'Rocco', 'Roderick', 'Rodney', 'Rodolfo', 'Rodrigo', 'Rogelio', 'Roger', 'Rohan', 'Roland', 'Rolando', 'Roman', 'Romeo', 'Ronald', 'Ronan', 'Ronin', 'Ronnie', 'Rory', 'Rosa', 'Rose', 'Roselyn', 'Rosemary', 'Ross', 'Rowan', 'Roy', 'Royce', 'Ruben', 'Rubi', 'Ruby', 'Rudy', 'Russell', 'Ruth', 'Ryan', 'Ryann', 'Ryder', 'Ryker', 'Rylan', 'Ryland', 'Rylee', 'Ryleigh', 'Rylie', 'Sabrina', 'Sadie', 'Sage', 'Saige', 'Salma', 'Salvador', 'Salvatore', 'Sam', 'Samantha', 'Samara', 'Samir', 'Sammy', 'Samson', 'Samuel', 'Sanaa', 'Sanai', 'Sandra', 'Saniya', 'Saniyah', 'Santiago', 'Santino', 'Santos', 'Sara', 'Sarah', 'Sarahi', 'Sarai', 'Sariah', 'Sasha', 'Saul', 'Savanah', 'Savanna', 'Savannah', 'Savion', 'Sawyer', 'Scarlet', 'Scarlett', 'Scott', 'Seamus', 'Sean', 'Sebastian', 'Selah', 'Selena', 'Selina', 'Semaj', 'Serena', 'Serenity', 'Sergio', 'Seth', 'Shamar', 'Shane', 'Shania', 'Shaniya', 'Shannon', 'Sharon', 'Shaun', 'Shawn', 'Shayla', 'Shaylee', 'Shayna', 'Shea', 'Shelby', 'Sheldon', 'Sherlyn', 'Shiloh', 'Shirley', 'Shyann', 'Shyanne', 'Shyla', 'Sidney', 'Siena', 'Sienna', 'Sierra', 'Silas', 'Simeon', 'Simon', 'Simone', 'Sincere', 'Skye', 'Skyla', 'Skylar', 'Skyler', 'Slade', 'Sloane', 'Sofia', 'Solomon', 'Sonia', 'Sonny', 'Sophia', 'Sophie', 'Soren', 'Spencer', 'Stacy', 'Stanley', 'Stella', 'Stephanie', 'Stephany', 'Stephen', 'Sterling', 'Steve', 'Steven', 'Sullivan', 'Summer', 'Susan', 'Sydnee', 'Sydney', 'Sylvia', 'Tabitha', 'Talan', 'Talia', 'Taliyah', 'Talon', 'Tamara', 'Tamia', 'Tania', 'Taniya', 'Taniyah', 'Tanner', 'Tanya', 'Tara', 'Taryn', 'Tate', 'Tatiana', 'Tatum', 'Taylor', 'Teagan', 'Teresa', 'Terrance', 'Terrell', 'Terrence', 'Terry', 'Tess', 'Tessa', 'Thaddeus', 'Thalia', 'Theodore', 'Theresa', 'Thomas', 'Tia', 'Tiana', 'Tianna', 'Tiara', 'Tiffany', 'Timothy', 'Titus', 'Tobias', 'Toby', 'Todd', 'Tomas', 'Tommy', 'Tony', 'Tori', 'Trace', 'Travis', 'Trent', 'Trenton', 'Trevin', 'Trevon', 'Trevor', 'Trey', 'Trinity', 'Tripp', 'Tristan', 'Tristen', 'Tristian', 'Tristin', 'Triston', 'Troy', 'Trystan', 'Tucker', 'Turner', 'Ty', 'Tyler', 'Tyree', 'Tyrell', 'Tyrese', 'Tyrone', 'Tyshawn', 'Tyson', 'Ulises', 'Uriah', 'Uriel', 'Urijah', 'Valentin', 'Valentina', 'Valentino', 'Valeria', 'Valerie', 'Valery', 'Van', 'Vance', 'Vanessa', 'Vaughn', 'Veronica', 'Vicente', 'Victor', 'Victoria', 'Vincent', 'Violet', 'Virginia', 'Vivian', 'Viviana', 'Wade', 'Walker', 'Walter', 'Warren', 'Waylon', 'Wayne', 'Wendy', 'Wesley', 'Weston', 'Whitney', 'Will', 'William', 'Willie', 'Willow', 'Wilson', 'Winston', 'Wyatt', 'Xander', 'Xavier', 'Ximena', 'Xiomara', 'Xzavier', 'Yadiel', 'Yadira', 'Yael', 'Yahir', 'Yair', 'Yamilet', 'Yandel', 'Yareli', 'Yaretzi', 'Yaritza', 'Yasmin', 'Yasmine', 'Yazmin', 'Yesenia', 'Yosef', 'Yoselin', 'Yuliana', 'Yurem', 'Yusuf', 'Zachariah', 'Zachary', 'Zachery', 'Zack', 'Zackary', 'Zackery', 'Zaid', 'Zaiden', 'Zain', 'Zaire', 'Zander', 'Zane', 'Zaniyah', 'Zara', 'Zaria', 'Zariah', 'Zavier', 'Zayden', 'Zayne', 'Zechariah', 'Zion', 'Zoe', 'Zoey', 'Zoie']

Name 'Emily' found at index 1635.

C:\Users\HP\OneDrive\Desktop\PYTHON PROGRAMMS>

**CODES**

**this code reads file, extract the first name, middle name, and last name, and then print the local file path using the os library.**

**import re**

**import os**

**# File path to the text file**

**text\_file\_path = r'C:\Users\HP\OneDrive\Desktop\PYTHON PROGRAMMS\full\_name.txt'**

**# Read the file**

**with open(text\_file\_path, 'r') as file:**

**full\_name = file.read().strip()**

**# Extract first name, middle name, and last name**

**names = full\_name.split()**

**first\_name = names[0]**

**middle\_name = names[1]**

**last\_name = names[2]**

**# Print the extracted names**

**print(f"First Name: {first\_name}")**

**print(f"Middle Name: {middle\_name}")**

**print(f"Last Name: {last\_name}")**

**# Print the local file path**

**print(f"Local File Path: {os.path.abspath(text\_file\_path)}")**

**# Quick sort algorithm**

**def quicksort(arr):**

**if len(arr) <= 1:**

**return arr**

**pivot = arr[len(arr) // 2]**

**left = [x for x in arr if x < pivot]**

**middle = [x for x in arr if x == pivot]**

**right = [x for x in arr if x > pivot]**

**return quicksort(left) + middle + quicksort(right)**

**# Binary search algorithm**

**def binary\_search(arr, target):**

**low = 0**

**high = len(arr) - 1**

**while low <= high:**

**mid = (low + high) // 2**

**if arr[mid] == target:**

**return mid**

**elif arr[mid] < target:**

**low = mid + 1**

**else:**

**high = mid - 1**

**return -1**

**# Define the path to the HTML file**

**html\_file\_path = r'C:\Users\HP\OneDrive\Desktop\PYTHON PROGRAMMS\baby2008.html'**

**# Read the HTML file**

**with open(html\_file\_path, 'r') as file:**

**html\_content = file.read()**

**# Extract baby names using regex (example assuming names are in <td> tags)**

**name\_pattern = re.compile(r'<td>(\w+)</td>')**

**baby\_names = name\_pattern.findall(html\_content)**

**# Remove duplicates and sort the names using quicksort**

**unique\_baby\_names = sorted(set(baby\_names))**

**sorted\_baby\_names = quicksort(unique\_baby\_names)**

**# Print the sorted baby names**

**print(f"Sorted Baby Names: {sorted\_baby\_names}")**

**# Example usage of binary search**

**target\_name = "Emily"**

**index = binary\_search(sorted\_baby\_names, target\_name)**

**if index != -1:**

**print(f"Name '{target\_name}' found at index {index}.")**

**else:**

**print(f"Name '{target\_name}' not found in the list.")**