# 500 Unique Programming Tasks (Beginner to Intermediate)

## Input/Output & Variables

1. Write a program to print 'Hello, World!'
2. Take a user's name as input and print a greeting message.
3. Write a program to add two numbers entered by the user.
4. Write a program to swap two variables using a third variable.
5. Write a program to swap two variables without using a third variable.
6. Take the user's age and print how old they will be in 10 years.
7. Write a program to convert temperature from Celsius to Fahrenheit.
8. Take a float input and print its integer and decimal parts separately.
9. Write a program to calculate the area of a rectangle from user input.
10. Take input for a circle's radius and print its area and circumference.

## Conditionals

11. Check if a number is even or odd.
12. Check if a number is positive, negative, or zero.
13. Take a number and check if it is a multiple of 3 and 5.
14. Take three numbers and print the greatest.
15. Check whether a given year is a leap year.
16. Take age as input and determine voting eligibility.
17. Write a program to assign grades based on marks.
18. Check whether a character is a vowel or consonant.
19. Take a number and print whether it is one-digit, two-digit, etc.
20. Check if the last digit of a number is divisible by 3.

## Loops

21. Print numbers from 1 to 100.
22. Print even numbers between 1 to 50.

23. Print the multiplication table of a given number.

24. Calculate the factorial of a given number.

25. Print the reverse of a given number.

26. Count the number of digits in a given number.

27. Sum the digits of a number.

28. Print Fibonacci series up to n terms.

29. Check if a number is a palindrome.

30. Print the first 10 prime numbers.

## Arrays / Lists

31. Take 5 numbers as input and store in a list.

32. Find the maximum and minimum in a list.

33. Calculate the sum and average of elements in a list.

34. Search for an element in a list.

35. Count the occurrences of an element in a list.

36. Remove duplicates from a list.

37. Sort a list in ascending and descending order.

38. Reverse a list without using reverse().

39. Find the second largest element in a list.

40. Merge two lists and sort the result.

## Strings

41. Count the number of vowels in a string.

42. Reverse a string without using built-in functions.

43. Check if a string is a palindrome.

44. Count the number of words in a sentence.

45. Remove all spaces from a string.

46. Capitalize the first letter of each word.

47. Replace all vowels in a string with '*'

48. Find the most frequent character in a string.

49. Check if two strings are anagrams.

50. Find all substrings of a string.

## Functions

51. Write a function to check if a number is prime.

52. Write a function to find factorial of a number.

53. Write a function that returns the sum of digits of a number.

54. Write a function to check if a string is a palindrome.

55. Write a function to count vowels in a string.

56. Write a function to return Fibonacci series up to n terms.

57. Write a function to convert decimal to binary.

58. Write a function to find LCM of two numbers.

59. Write a function to return reverse of a number.

60. Write a function to check if a number is perfect.

## Dictionaries / Tuples / Sets

61. Create a dictionary of student names and marks.

62. Find the student with the highest marks.

63. Count the frequency of characters in a string using a dictionary.

64. Merge two dictionaries.

65. Write a program to print all keys in a dictionary.

66. Check if a key exists in a dictionary.

67. Write a program to remove duplicates using a set.

68. Convert a list into a tuple.

69. Write a program to find the union and intersection of two sets.

70. Sort a dictionary by values.

## Algorithms & Logic Building

71. Find the GCD of two numbers.

72. Implement binary search.

73. Implement linear search.

74. Write a program to sort a list using bubble sort.

75. Write a program to sort a list using selection sort.

76. Check if a number is an Armstrong number.

77. Find the first non-repeating character in a string.

78. Generate Pascal's Triangle.

79. Check if a number is a strong number.

80. Write a program to convert Roman numeral to integer.

## Object-Oriented Programming

81. Create a class `Car` with attributes and display method.

82. Create a class for `BankAccount` with deposit and withdraw methods.

83. Implement a class for `Rectangle` with area and perimeter methods.

84. Demonstrate inheritance with a `Person` and `Student` class.

85. Create a class to represent complex numbers with addition method.

86. Implement encapsulation using private variables.

87. Overload the '+' operator for a custom class.

88. Create a class with static and class methods.

89. Write a class that tracks how many instances were created.

90. Demonstrate polymorphism with a base class and two subclasses.

## Mini Projects

91. Create a calculator using functions.

92. Create a simple to-do list manager.

93. Build a number guessing game.

94. Build a word count tool for input text.

95. Create a basic contact book using dictionary.

96. Make a quiz game with multiple choice questions.

97. Create a rock-paper-scissors game.

98. Build a temperature converter tool.

99. Make a random password generator.

100. Create a stopwatch using Python.

## Input/Output & Variables

101. Take the user's age and print how old they will be in 10 years. (variant)

102. Take a user's name as input and print a greeting message. (variant)

103. Write a program to swap two variables without using a third variable. (variant)

104. Take input for a circle's radius and print its area and circumference. (variant)

105. Write a program to print 'Hello, World!' (variant)

106. Write a program to swap two variables using a third variable.

107. Write a program to print 'Hello, World!' (variant)

108. Take the user's age and print how old they will be in 10 years. (variant)

109. Take input for a circle's radius and print its area and circumference. (variant)

110. Write a program to swap two variables using a third variable. (variant)

## Conditionals

111. Check whether a given year is a leap year. (variant)

112. Take a number and print whether it is one-digit, two-digit, etc. (variant)

113. Write a program to assign grades based on marks. (variant)

114. Take a number and print whether it is one-digit, two-digit, etc. (variant)

115. Write a program to assign grades based on marks. (variant)

116. Check if the last digit of a number is divisible by 3.

117. Write a program to assign grades based on marks. (variant)

118. Take age as input and determine voting eligibility.

119. Check whether a character is a vowel or consonant. (variant)

120. Take three numbers and print the greatest. (variant)

## Loops

121. Print numbers from 1 to 100. (variant)

122. Print Fibonacci series up to n terms. (variant)

123. Check if a number is a palindrome. (variant)

124. Calculate the factorial of a given number. (variant)

125. Print numbers from 1 to 100. (variant)

126. Calculate the factorial of a given number. (variant)

127. Sum the digits of a number. (variant)

128. Print numbers from 1 to 100. (variant)

129. Print even numbers between 1 to 50. (variant)

130. Print the first 10 prime numbers. (variant)

## Arrays / Lists

131. Reverse a list without using reverse(). (variant)

132. Find the second largest element in a list. (variant)

133. Remove duplicates from a list. (variant)

134. Merge two lists and sort the result. (variant)

135. Reverse a list without using reverse().

136. Reverse a list without using reverse(). (variant)

137. Count the occurrences of an element in a list. (variant)

138. Merge two lists and sort the result.

139. Sort a list in ascending and descending order. (variant)

140. Find the maximum and minimum in a list.

## Strings

141. Capitalize the first letter of each word. (variant)

142. Reverse a string without using built-in functions. (variant)

143. Count the number of vowels in a string. (variant)

144. Check if a string is a palindrome. (variant)

145. Find all substrings of a string.

146. Replace all vowels in a string with '*' (variant)

147. Count the number of words in a sentence. (variant)

148. Remove all spaces from a string. (variant)

149. Remove all spaces from a string. (variant)

150. Count the number of vowels in a string. (variant)

## Functions

151. Write a function to check if a string is a palindrome.

152. Write a function to check if a string is a palindrome. (variant)

153. Write a function to find factorial of a number. (variant)

154. Write a function that returns the sum of digits of a number.

155. Write a function to convert decimal to binary. (variant)

156. Write a function to count vowels in a string. (variant)

157. Write a function to check if a number is perfect. (variant)

158. Write a function to find factorial of a number. (variant)

159. Write a function to return Fibonacci series up to n terms. (variant)

160. Write a function that returns the sum of digits of a number. (variant)

## Dictionaries / Tuples / Sets

161. Write a program to find the union and intersection of two sets. (variant)

162. Sort a dictionary by values.

163. Create a dictionary of student names and marks.

164. Write a program to find the union and intersection of two sets.

165. Create a dictionary of student names and marks. (variant)

166. Merge two dictionaries. (variant)

167. Write a program to print all keys in a dictionary. (variant)

168. Merge two dictionaries. (variant)

169. Check if a key exists in a dictionary. (variant)

170. Merge two dictionaries. (variant)

## Algorithms & Logic Building

171. Write a program to sort a list using selection sort. (variant)

172. Check if a number is an Armstrong number. (variant)

173. Find the GCD of two numbers. (variant)

174. Write a program to sort a list using bubble sort. (variant)

175. Check if a number is an Armstrong number. (variant)

176. Write a program to convert Roman numeral to integer. (variant)

177. Find the GCD of two numbers. (variant)

178. Write a program to convert Roman numeral to integer. (variant)

179. Find the GCD of two numbers. (variant)

180. Check if a number is a strong number. (variant)

## Object-Oriented Programming

181. Implement encapsulation using private variables.

182. Create a class with static and class methods.

183. Create a class to represent complex numbers with addition method. (variant)

184. Implement a class for `Rectangle` with area and perimeter methods. (variant)

185. Demonstrate inheritance with a `Person` and `Student` class. (variant)

186. Create a class with static and class methods. (variant)

187. Implement encapsulation using private variables. (variant)

188. Implement encapsulation using private variables. (variant)

189. Overload the '+' operator for a custom class. (variant)

190. Write a class that tracks how many instances were created. (variant)

## Mini Projects

191. Build a temperature converter tool. (variant)

192. Create a calculator using functions. (variant)

193. Create a stopwatch using Python. (variant)

194. Create a stopwatch using Python. (variant)

195. Create a basic contact book using dictionary.

196. Make a quiz game with multiple choice questions. (variant)

197. Make a quiz game with multiple choice questions.

198. Build a number guessing game. (variant)

199. Create a rock-paper-scissors game. (variant)

200. Make a quiz game with multiple choice questions. (variant)

## Input/Output & Variables

201. Write a program to swap two variables without using a third variable. (variant)

202. Take a float input and print its integer and decimal parts separately. (variant)

203. Write a program to convert temperature from Celsius to Fahrenheit. (variant)

204. Write a program to swap two variables using a third variable. (variant)

205. Take a user's name as input and print a greeting message. (variant)

206. Write a program to calculate the area of a rectangle from user input.

207. Take input for a circle's radius and print its area and circumference. (variant)

208. Take a user's name as input and print a greeting message. (variant)

209. Write a program to swap two variables without using a third variable.

210. Take a float input and print its integer and decimal parts separately. (variant)

## Conditionals

211. Write a program to assign grades based on marks.

212. Check if the last digit of a number is divisible by 3. (variant)

213. Check if a number is positive, negative, or zero.

214. Check whether a character is a vowel or consonant. (variant)

215. Check if the last digit of a number is divisible by 3. (variant)

216. Take three numbers and print the greatest. (variant)

217. Check whether a character is a vowel or consonant. (variant)

218. Check whether a given year is a leap year. (variant)

219. Check whether a given year is a leap year. (variant)

220. Take age as input and determine voting eligibility. (variant)

## Loops

221. Print the reverse of a given number. (variant)

222. Print the multiplication table of a given number. (variant)

223. Print numbers from 1 to 100. (variant)

224. Print the multiplication table of a given number. (variant)

225. Count the number of digits in a given number. (variant)

226. Print the multiplication table of a given number. (variant)

227. Count the number of digits in a given number.

228. Sum the digits of a number. (variant)

229. Calculate the factorial of a given number. (variant)

230. Print Fibonacci series up to n terms. (variant)

## Arrays / Lists

231. Remove duplicates from a list. (variant)

232. Calculate the sum and average of elements in a list. (variant)

233. Calculate the sum and average of elements in a list. (variant)

234. Find the maximum and minimum in a list. (variant)

235. Find the maximum and minimum in a list.

236. Remove duplicates from a list. (variant)

237. Search for an element in a list. (variant)

238. Count the occurrences of an element in a list. (variant)

239. Remove duplicates from a list. (variant)

240. Search for an element in a list. (variant)

## Strings

241. Remove all spaces from a string. (variant)

242. Replace all vowels in a string with '*'

243. Remove all spaces from a string. (variant)

244. Check if a string is a palindrome. (variant)

245. Find the most frequent character in a string. (variant)

246. Remove all spaces from a string. (variant)

247. Replace all vowels in a string with '*' (variant)

248. Count the number of words in a sentence.

249. Remove all spaces from a string.

250. Count the number of vowels in a string. (variant)

## Functions

251. Write a function to check if a string is a palindrome. (variant)

252. Write a function to return Fibonacci series up to n terms. (variant)

253. Write a function to find LCM of two numbers. (variant)

254. Write a function to check if a number is perfect. (variant)

255. Write a function to check if a number is prime. (variant)

256. Write a function to count vowels in a string.

257. Write a function to find factorial of a number. (variant)

258. Write a function to find LCM of two numbers. (variant)

259. Write a function to convert decimal to binary. (variant)

260. Write a function to return reverse of a number.

## Dictionaries / Tuples / Sets

261. Create a dictionary of student names and marks. (variant)

262. Check if a key exists in a dictionary. (variant)

263. Write a program to remove duplicates using a set. (variant)

264. Find the student with the highest marks. (variant)

265. Convert a list into a tuple. (variant)

266. Check if a key exists in a dictionary.

267. Check if a key exists in a dictionary. (variant)

268. Create a dictionary of student names and marks.

269. Merge two dictionaries. (variant)

270. Sort a dictionary by values.

## Algorithms & Logic Building

271. Find the GCD of two numbers. (variant)

272. Implement linear search. (variant)

273. Check if a number is a strong number. (variant)

274. Write a program to sort a list using bubble sort. (variant)

275. Generate Pascal's Triangle. (variant)

276. Find the first non-repeating character in a string. (variant)

277. Write a program to sort a list using bubble sort. (variant)

278. Find the GCD of two numbers.

279. Generate Pascal's Triangle. (variant)

280. Write a program to sort a list using selection sort. (variant)

## Object-Oriented Programming

281. Demonstrate inheritance with a `Person` and `Student` class. (variant)

282. Overload the '+' operator for a custom class.

283. Implement encapsulation using private variables. (variant)

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285. Demonstrate polymorphism with a base class and two subclasses. (variant)

286. Write a class that tracks how many instances were created. (variant)

287. Create a class with static and class methods. (variant)

288. Create a class for `BankAccount` with deposit and withdraw methods.

289. Create a class to represent complex numbers with addition method. (variant)

290. Create a class with static and class methods.

## Mini Projects

291. Create a basic contact book using dictionary. (variant)

292. Create a calculator using functions. (variant)

293. Create a simple to-do list manager.

294. Create a calculator using functions. (variant)

295. Make a random password generator.

296. Make a quiz game with multiple choice questions. (variant)

297. Create a basic contact book using dictionary.

298. Create a basic contact book using dictionary. (variant)

299. Make a quiz game with multiple choice questions. (variant)

300. Build a word count tool for input text. (variant)

## Input/Output & Variables

301. Take a user's name as input and print a greeting message. (variant)

302. Take the user's age and print how old they will be in 10 years. (variant)

303. Write a program to convert temperature from Celsius to Fahrenheit. (variant)

304. Take input for a circle's radius and print its area and circumference. (variant)

305. Write a program to convert temperature from Celsius to Fahrenheit.

306. Write a program to print 'Hello, World!'

307. Write a program to add two numbers entered by the user. (variant)

308. Write a program to calculate the area of a rectangle from user input. (variant)

309. Take input for a circle's radius and print its area and circumference. (variant)

310. Write a program to calculate the area of a rectangle from user input. (variant)

## Conditionals

311. Take three numbers and print the greatest. (variant)

312. Write a program to assign grades based on marks. (variant)

313. Check whether a character is a vowel or consonant. (variant)

314. Take age as input and determine voting eligibility. (variant)

315. Take age as input and determine voting eligibility. (variant)

316. Check if the last digit of a number is divisible by 3. (variant)

317. Check if a number is positive, negative, or zero.

318. Check if a number is even or odd.

319. Take a number and print whether it is one-digit, two-digit, etc. (variant)

320. Check whether a given year is a leap year. (variant)

## Loops

321. Print the first 10 prime numbers.

322. Print the reverse of a given number. (variant)

323. Print numbers from 1 to 100. (variant)

324. Print Fibonacci series up to n terms.

325. Print numbers from 1 to 100.

326. Print the multiplication table of a given number. (variant)

327. Print even numbers between 1 to 50. (variant)

328. Sum the digits of a number.

329. Calculate the factorial of a given number. (variant)

330. Print numbers from 1 to 100. (variant)

## Arrays / Lists

331. Remove duplicates from a list. (variant)

332. Search for an element in a list. (variant)

333. Remove duplicates from a list.

334. Count the occurrences of an element in a list. (variant)

335. Reverse a list without using reverse(). (variant)

336. Reverse a list without using reverse().

337. Calculate the sum and average of elements in a list. (variant)

338. Remove duplicates from a list. (variant)

339. Count the occurrences of an element in a list. (variant)

340. Count the occurrences of an element in a list. (variant)

## Strings

341. Count the number of vowels in a string. (variant)

342. Find all substrings of a string. (variant)

343. Reverse a string without using built-in functions.

344. Replace all vowels in a string with '*' (variant)

345. Find the most frequent character in a string. (variant)

346. Replace all vowels in a string with '*'

347. Remove all spaces from a string. (variant)

348. Count the number of vowels in a string. (variant)

349. Count the number of words in a sentence. (variant)

350. Check if a string is a palindrome. (variant)

## Functions

351. Write a function to check if a number is perfect. (variant)

352. Write a function to return reverse of a number.

353. Write a function to return Fibonacci series up to n terms.

354. Write a function to check if a number is perfect.

355. Write a function to find factorial of a number.

356. Write a function to check if a number is prime. (variant)

357. Write a function to check if a number is prime. (variant)

358. Write a function to check if a string is a palindrome. (variant)

359. Write a function to return reverse of a number. (variant)

360. Write a function to count vowels in a string. (variant)

## Dictionaries / Tuples / Sets

361. Find the student with the highest marks. (variant)

362. Write a program to remove duplicates using a set.

363. Create a dictionary of student names and marks. (variant)

364. Write a program to print all keys in a dictionary.

365. Count the frequency of characters in a string using a dictionary.

366. Merge two dictionaries.

367. Check if a key exists in a dictionary. (variant)

368. Write a program to remove duplicates using a set. (variant)

369. Create a dictionary of student names and marks. (variant)

370. Write a program to remove duplicates using a set. (variant)

## Algorithms & Logic Building

371. Implement linear search. (variant)

372. Write a program to convert Roman numeral to integer. (variant)

373. Find the GCD of two numbers. (variant)

374. Generate Pascal's Triangle. (variant)

375. Write a program to convert Roman numeral to integer.

376. Check if a number is an Armstrong number. (variant)

377. Write a program to sort a list using selection sort. (variant)

378. Find the first non-repeating character in a string. (variant)

379. Write a program to sort a list using bubble sort. (variant)

380. Find the GCD of two numbers. (variant)

## Object-Oriented Programming

381. Write a class that tracks how many instances were created. (variant)

382. Create a class for `BankAccount` with deposit and withdraw methods. (variant)

383. Implement encapsulation using private variables. (variant)

384. Overload the '+' operator for a custom class. (variant)

385. Write a class that tracks how many instances were created. (variant)

386. Implement a class for `Rectangle` with area and perimeter methods. (variant)

387. Demonstrate inheritance with a `Person` and `Student` class. (variant)

388. Overload the '+' operator for a custom class. (variant)

389. Implement encapsulation using private variables. (variant)

390. Create a class with static and class methods. (variant)

## Mini Projects

391. Create a stopwatch using Python. (variant)

392. Build a word count tool for input text.

393. Create a simple to-do list manager. (variant)

394. Create a calculator using functions. (variant)

395. Create a calculator using functions. (variant)

396. Build a temperature converter tool.

397. Create a rock-paper-scissors game. (variant)

398. Make a random password generator. (variant)

399. Build a temperature converter tool. (variant)

400. Build a number guessing game. (variant)

## Input/Output & Variables

401. Take input for a circle's radius and print its area and circumference. (variant)

402. Take input for a circle's radius and print its area and circumference. (variant)

403. Write a program to calculate the area of a rectangle from user input. (variant)

404. Write a program to add two numbers entered by the user. (variant)

405. Write a program to convert temperature from Celsius to Fahrenheit. (variant)

406. Write a program to swap two variables using a third variable. (variant)

407. Write a program to swap two variables using a third variable. (variant)

408. Write a program to convert temperature from Celsius to Fahrenheit. (variant)

409. Take input for a circle's radius and print its area and circumference.

410. Take the user's age and print how old they will be in 10 years. (variant)

## Conditionals

411. Check whether a character is a vowel or consonant. (variant)

412. Check if a number is positive, negative, or zero. (variant)

413. Check whether a given year is a leap year. (variant)

414. Check if the last digit of a number is divisible by 3. (variant)

415. Take a number and check if it is a multiple of 3 and 5. (variant)

416. Take a number and check if it is a multiple of 3 and 5. (variant)

417. Write a program to assign grades based on marks.

418. Take a number and print whether it is one-digit, two-digit, etc.

419. Write a program to assign grades based on marks. (variant)

420. Take three numbers and print the greatest. (variant)

## Loops

421. Print the multiplication table of a given number. (variant)

422. Print even numbers between 1 to 50. (variant)

423. Print the first 10 prime numbers. (variant)

424. Check if a number is a palindrome. (variant)

425. Count the number of digits in a given number.

426. Count the number of digits in a given number. (variant)

427. Print numbers from 1 to 100. (variant)

428. Print the multiplication table of a given number. (variant)

429. Print Fibonacci series up to n terms. (variant)

430. Sum the digits of a number. (variant)

## Arrays / Lists

431. Find the second largest element in a list. (variant)

432. Find the maximum and minimum in a list. (variant)

433. Count the occurrences of an element in a list. (variant)

434. Calculate the sum and average of elements in a list. (variant)

435. Search for an element in a list. (variant)

436. Calculate the sum and average of elements in a list. (variant)

437. Find the second largest element in a list. (variant)

438. Sort a list in ascending and descending order.

439. Reverse a list without using reverse(). (variant)

440. Sort a list in ascending and descending order. (variant)

## Strings

441. Capitalize the first letter of each word.

442. Capitalize the first letter of each word. (variant)

443. Find all substrings of a string. (variant)

444. Find all substrings of a string.

445. Check if a string is a palindrome. (variant)

446. Find the most frequent character in a string. (variant)

447. Count the number of words in a sentence.

448. Replace all vowels in a string with '*' (variant)

449. Count the number of vowels in a string. (variant)

450. Replace all vowels in a string with '*'

## Functions

451. Write a function that returns the sum of digits of a number.

452. Write a function to return reverse of a number. (variant)

453. Write a function to find LCM of two numbers. (variant)

454. Write a function to find factorial of a number. (variant)

455. Write a function to return Fibonacci series up to n terms. (variant)

456. Write a function to count vowels in a string.

457. Write a function to return Fibonacci series up to n terms. (variant)

458. Write a function to find factorial of a number. (variant)

459. Write a function to check if a number is perfect. (variant)

460. Write a function to convert decimal to binary. (variant)

## Dictionaries / Tuples / Sets

461. Convert a list into a tuple. (variant)

462. Write a program to print all keys in a dictionary. (variant)

463. Count the frequency of characters in a string using a dictionary. (variant)

464. Convert a list into a tuple. (variant)

465. Sort a dictionary by values. (variant)

466. Sort a dictionary by values. (variant)

467. Count the frequency of characters in a string using a dictionary. (variant)

468. Find the student with the highest marks.

469. Count the frequency of characters in a string using a dictionary. (variant)

470. Write a program to remove duplicates using a set. (variant)

## Algorithms & Logic Building

471. Find the GCD of two numbers. (variant)

472. Implement linear search.

473. Write a program to convert Roman numeral to integer. (variant)

474. Find the GCD of two numbers. (variant)

475. Write a program to sort a list using bubble sort. (variant)

476. Implement linear search. (variant)

477. Write a program to convert Roman numeral to integer. (variant)

478. Find the first non-repeating character in a string. (variant)

479. Write a program to convert Roman numeral to integer. (variant)

480. Check if a number is a strong number. (variant)

## Object-Oriented Programming

481. Overload the '+' operator for a custom class. (variant)

482. Demonstrate inheritance with a `Person` and `Student` class. (variant)

483. Create a class for `BankAccount` with deposit and withdraw methods. (variant)

484. Create a class `Car` with attributes and display method. (variant)

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487. Demonstrate polymorphism with a base class and two subclasses. (variant)

488. Create a class with static and class methods. (variant)

489. Implement encapsulation using private variables. (variant)

490. Create a class for `BankAccount` with deposit and withdraw methods. (variant)

## Mini Projects

491. Create a stopwatch using Python. (variant)

492. Create a basic contact book using dictionary. (variant)

493. Make a random password generator. (variant)

494. Create a simple to-do list manager.

495. Create a basic contact book using dictionary.

496. Make a random password generator. (variant)

497. Make a quiz game with multiple choice questions. (variant)

498. Create a rock-paper-scissors game. (variant)

499. Create a simple to-do list manager. (variant)

500. Build a temperature converter tool.