



main.py

```
1 #write a function to return average of a list.
2 def calculate_average(num_list):
3     return sum(num_list) / len(num_list) if num_list else 0
4
5 my_list = [1,24,468,574]
6 avg = calculate_average(my_list)
7 print("Average of the list:", avg)
8
```



input

Average of the list: 266.75

...Program finished with exit code 0
Press ENTER to exit console.

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beta

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source code

```
1  #write program to find difference between two sets.
2  set1 = {1, 2, 3, 4, 5}
3  set2 = {3, 4, 5, 6, 7}
4  difference = set1.difference(set2)
5  print("Difference :", difference)
6
```

input

Difference : {1, 2}

...Program finished with exit code 0
Press ENTER to exit console.



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Language Python 3



main.py

```
1  #A list contains strings and numbers. Write a function to return the sum of numbers in the
2  def sum_numbers_in_list(lst):
3      total = 0
4      for item in lst:
5          try:
6              total += float(item)
7          except ValueError:
8              pass
9      return total
10
11 my_list = ["apple", 3, "banana", 5.5, 7]
12 print(sum_numbers_in_list(my_list)) # Output: 15.5
```

...



input

15.5

```
...Program finished with exit code 0
Press ENTER to exit console.
```



main.py

```
1 #Write a function to take sequence of number separated by comma and return list of numbers.
2 def convert_to_list(string):
3     num_list = string.split(",")
4     return [int(num) for num in num_list]
5
6 input_string = "2,4,1,5,3"
7 result_list = convert_to_list(input_string)
8 print(result_list) |
9
```

```
[2, 4, 1, 5, 3]
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```



main.py

```
1 #Write a function to take three students names and marks using keyword arguments and print
2 def highest_marks(**kwargs):
3     highest_mark = 0
4     highest_student = ""
5
6     for name, mark in kwargs.items():
7         if mark > highest_mark:
8             highest_mark = mark
9             highest_student = name
10
11     print(f"The student with the highest marks is {highest_student} with a score of {highest_mark}")
12 highest_marks(student1=85, student2=92, student3=78)
13
```



input

The student with the highest marks is student2 with a score of 92.

...Program finished with exit code 0
Press ENTER to exit console.



main.py

```
1 #Write a function to return domain name in a website name.
2 def domain(website_url):
3     d= website_url.split('.')
4     if len(d) >= 2:
5         return d[-1]
6     else:
7         return None
8
9 website_url = "www.amazon.com"
10 print(domain(website_url))
```



Input

com

...Program finished with exit code 0
Press ENTER to exit console.



```
main.py
1  #Write program to take month and year and calculate age in years and months up to march-2024
2  current_year = 2024
3  current_month = 3
4
5  input_month = int(input("Enter the birth month (1-12): "))
6  input_year = int(input("Enter the birth year: "))
7
8  age_years = current_year - input_year
9  age_months = current_month - input_month
10
11 if age_months < 0:
12     age_years -= 1
13     age_months += 12
14
15 print(f"The age is {age_years} years and {age_months} months.")
16
```

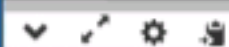
```
Enter the birth month (1-12): 3
Enter the birth year: 2002
The age is 22 years and 0 months.

...Program finished with exit code 0
Press ENTER to exit console.
```



main.py

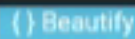
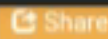
```
1 #Write a function to take 4-bit binary number and check whether odd or even.
2 def check_odd_even(binary_num):
3     if binary_num[-1] == '0':
4         return "Even"
5     else:
6         return "Odd"
7 binary_number = "1010"
8 result = check_odd_even(binary_number)
9 print(f"The binary number {binary_number} is {result}.")
10
```



input

The binary number 1010 is Even.

...Program finished with exit code 0
Press ENTER to exit console.



Language Python 3



main.py

```
1 #Write a function to roll two dice and also print sum of two dice.
2 import random
3 def roll_two_dice():
4     dice1 = random.randint(1, 6)
5     dice2 = random.randint(1, 6)
6     dice_sum = dice1 + dice2
7     print(f"dice_values: ({dice1},{dice2}) \n sum: {dice_sum}")
8 roll_two_dice()
9
```



input

```
dice_values: (4,2)
sum: 6
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```



main.py

```
1 #Write a program to print all the permutation of using 'a', 'b', 'c'.
2 characters = ['a', 'b', 'c']
3
4 for char1 in characters:
5     for char2 in characters:
6         if char2 != char1:
7             for char3 in characters:
8                 if char3 != char1 and char3 != char2:
9                     print(char1 + char2 + char3)
10
```

input

abc
acb
bac
bca
cab
cba

...Program finished with exit code 0
Press ENTER to exit console.

