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main.py

```python
#write a function to return average of a list.
def calculate_average(num_list):
    return sum(num_list) / len(num_list) if num_list else 0

my_list = [1,24,468,574]
avg = calculate_average(my_list)
print("Average of the list:", avg)

```

input

```
Average of the list: 266.75


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

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source code

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

```

input

```
Difference : {1, 2}


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

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main.py

```python
#A list contains strings and numbers. Write a function to return the sum of numbers in the
def sum_numbers_in_list(lst):
    total = 0
    for item in lst:
        try:
            total += float(item)
        except ValueError:
            pass
    return total

my_list = ["apple", 3, "banana", 5.5, 7]
print(sum_numbers_in_list(my_list))  # Output: 15.15
```

input

```
15.5


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

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main.py

```python
#Write a function to take sequence of number separated by comma and return list of numbers.
def convert_to_list(string):
    num_list = string.split(",")
    return [int(num) for num in num_list]

input_string = "2,4,1,5,3"
result_list = convert_to_list(input_string)
print(result_list)

```

input

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


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

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main.py

```python
#Write a function to take three students names and marks using keyword arguments and print
def highest_marks(**kwargs):
    highest_mark = 0
    highest_student = ""

    for name, mark in kwargs.items():
        if mark > highest_mark:
            highest_mark = mark
            highest_student = name

    print(f"The student with the highest marks is {highest_student} with a score of {highes
highest_marks(student1=85, student2=92, student3=78)

```

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.
```

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main.py

```python
#Write a function to return domain name in a website name.
def domain(website_url):
    d= website_url.split('.')
    if len(d) >= 2:
        return d[-1]
    else:
        return None

website_url = "www.amazon.com"
print(domain(website_url))
```

Input

```
com


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

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main.py

```python
#Write program to take month and year and calculate age in years and months up to march-202
current_year = 2024
current_month = 3

input_month = int(input("Enter the birth month (1-12): "))
input_year = int(input("Enter the birth year: "))

age_years = current_year - input_year
age_months = current_month - input_month

if age_months < 0:
    age_years -= 1
    age_months += 12

print(f"The age is {age_years} years and {age_months} months.")

```

input

```
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.
```

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main.py

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

```

input

```
The binary number 1010 is Even.


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

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main.py

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

```

input

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


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

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main.py

```python
#Write a program to print all the permutation of using 'a', 'b', 'c'.
characters = ['a', 'b', 'c']

for char1 in characters:
    for char2 in characters:
        if char2 != char1:
            for char3 in characters:
                if char3 != char1 and char3 != char2:
                    print(char1 + char2 + char3)

```

input

```
abc
acb
bac
bca
cab
cba


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