

prob1.py

```
1
2 def main():
3
4     name = "Nayan Raj"
5     reg = 2347240
6     para = f'My name is {name}, I have choose "University canteen management" as my domain my
registration number is {reg}, from MCA section B'
7
8     word = "my"
9     frequency = count_word_frequency(para, word)
10    print(f"The word '{word}' appears {frequency} times in the paragraph.")
11
12
13 def count_word_frequency(paragraph, word):
14     words_list = paragraph.split()
15     count = 0
16     for w in words_list:
17         if w.lower().strip('.,') == word.lower().strip('.,'):
18             count += 1
19     return count
20
21 main()
```

prob2.py

```
1  from re import split
2
3  def get_datatype(element):
4      try:
5          int(element)
6          return "int"
7      except ValueError:
8          pass
9
10     try:
11         float(element)
12         return "float"
13     except ValueError:
14         pass
15
16     return "string"
17
18
19 def main():
20     name = "Nayan Raj"
21     reg = 2347240
22     year = 2023
23     para = f'My name is {name}, I have choose "University canteen Management" as my domain my
registration number is {reg}, from MCA section B {year}'
24
25     words = split(" |, ", para)
26     print("Data Types of Selected Specific Elements:")
27     for word in words:
28         datatype = get_datatype(word)
29         print(f'{word} - {datatype}')
30
31 main()
32
33
```

prob3.py

```
1
2
3
4 def main():
5
6     alpha, numeric, special = 0, 0, 0
7     name = "Nayan Raj"
8     reg = 2347240
9     year = 2023
10    para= f'My name is {name}, I have choose "University Canteen Management" as my domain my
registration number is {reg}, @ from MCA section B {year}'
11    alphabet,num,special_ch=0,0,0
12    for x in para:
13        if x.isalpha():
14            alphabet+=1
15        elif x.isdigit():
16            num+=1
17        elif not x.isspace():
18            special_ch+=1
19
20
21
22    print(f"Number of int characters in the paragraph: {num}")
23    print(f"Number of String characters in the paragraph: {alphabet}")
24    print(f"Number of special characters in the paragraph: {special_ch}")
25
26
27    main()
28
```

prob4.py

```
1
2 # order set = {food_item_id,food_item_name,price,avaibility}
3 order = {101, "chicken wrap",200.00, True}
4
5 '''
6     pop(): Removes random item from the set
7
8 '''
9 order.pop()
10 print("pop() : ",order)
11
12 # order set = {food_item_id, Fppd_item_name, avaibility(T/F)}
13 order = {101, "chicken wrap", 200.00, True}
14 '''
15     clear(): Removes all elements in a set.
16 '''
17 order.clear()
18 print("clear() : ", order)
19
20 # order set = {food_item_id, Fppd_item_name, avaibility(T/F)}
21 order= {101, "chicken wrap", 200.00, True}
22 '''
23     discard(): Similar to remove() just that discard() does not raises
24     an error if the value entered does not exist.
25 '''
26 order.discard("p")
27 print("discard(<value>) : ", order)
28
29 # order set = {food_item_id, Food_item_name, avaibility(T/F)}
30 order = {101, "chicken wrap", 200.00, True}
31 p1={101,"nayan"}
32 '''
33     del : Deletes the set event, so print(event) will raise an error
34 '''
35 del (order)
36
37
38 print(p1)
```

prob5.py

```
1 | order = set()
2 | order_details = {"id", "food item", "price", "avaibility", "salary"}
3 | order.update(order_details)
4 |
5 | print(order)
6 |
7 | # Arranging in decending order
8 |
9 | sorted_list = sorted(order, reverse=True)
10 |
11 | print(sorted_list)
```

prob6.py

```
1  order = {"order_id", "food_item", "price", "avaibility"}
2
3  d1, d2, d3, d4 = order
4
5  print(d1)
6  print(d2)
7  print(d3)
8  print(d4)
9
```

prob7.py

```
1 domain = input("Enter your domain name : ")
2 domain = domain.replace(" ", "")
3 t = tuple(domain)
4
5 letter = input("Enter the letter to search : ")
6 count = 0
7
8 for i in range(len(domain)):
9     if letter == t[i]:
10         count += 1
11
12 print("Count = ", count)
13
```

prob8.py

```
1 domain = input("Enter your domain name : ")
2 list = list(domain.replace(" ",""))
3
4 print(list, end="\n\n")
5 # Positive indexing and slicing
6 print("Positive indexing and slicing:")
7 print("Character at index 0:", domain[0])
8 print("Characters from index 1 to 3:", domain[1:4])
9 print("Characters from index 2 onwards:", domain[2:])
10
11 # Negative indexing and slicing
12 print("\nNegative indexing and slicing:")
13 print("Character at index -1:", domain[-1])
14 print("Characters from index -4 to -2:", domain[-4:-1])
15 print("Characters except the last one:", domain[:-1])
16
17 # Using negative step in slicing
18 print("\nUsing negative step:")
19 print("Reverse the string:", domain[::-1])
20 print("Every second character in reverse:", domain[::-2])
21
```