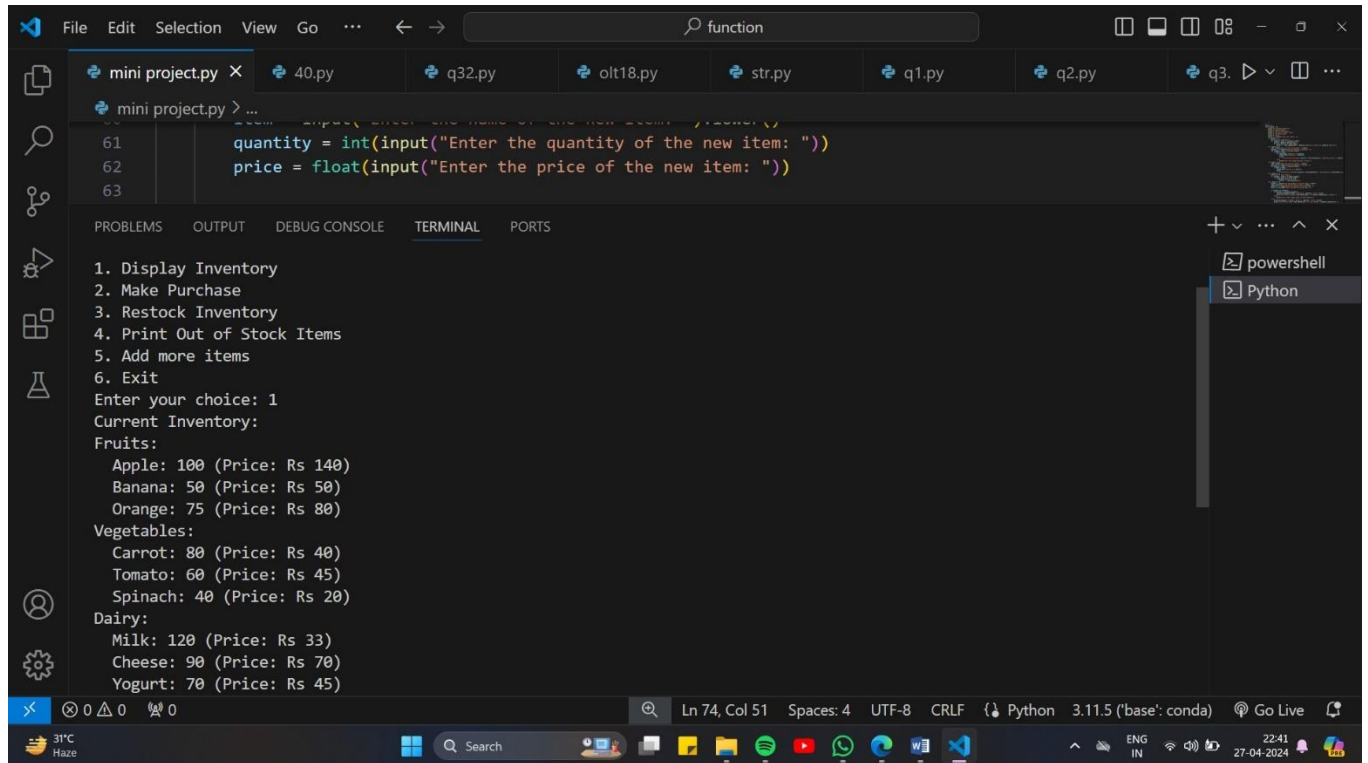


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SECTION-BC2
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Inventory_System



```
File Edit Selection View Go ... function
mini project.py X 40.py q32.py olt18.py str.py q1.py q2.py q3. v ...
mini project.py > ...
61 quantity = int(input("Enter the quantity of the new item: "))
62 price = float(input("Enter the price of the new item: "))
63

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
1. Display Inventory
2. Make Purchase
3. Restock Inventory
4. Print Out of Stock Items
5. Add more items
6. Exit
Enter your choice: 1
Current Inventory:
Fruits:
  Apple: 100 (Price: Rs 140)
  Banana: 50 (Price: Rs 50)
  Orange: 75 (Price: Rs 80)
Vegetables:
  Carrot: 80 (Price: Rs 40)
  Tomato: 60 (Price: Rs 45)
  Spinach: 40 (Price: Rs 20)
Dairy:
  Milk: 120 (Price: Rs 33)
  Cheese: 90 (Price: Rs 70)
  Yogurt: 70 (Price: Rs 45)
Ln 74, Col 51 Spaces: 4 UTF-8 CRLF Python 3.11.5 ('base': conda) Go Live
31°C Haze Search 27-04-2024 22:41
```

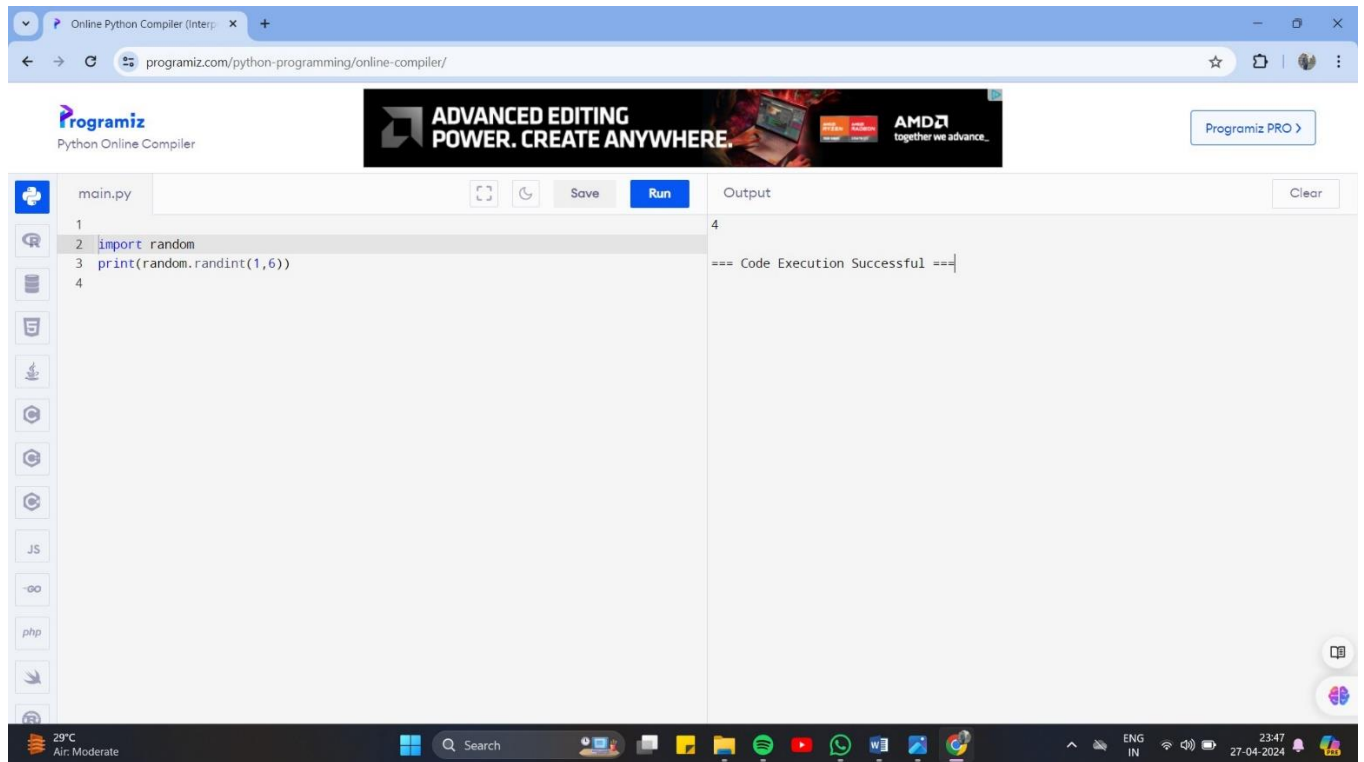
```
# inventory = {
#     'fruits': {
#         'apple': {'quantity': 100, 'price': 140},
#         'banana': {'quantity': 50, 'price': 50},
#         'orange': {'quantity': 75, 'price': 80}
#     },
#     'vegetables': {
#         'carrot': {'quantity': 80, 'price': 40},
#         'tomato': {'quantity': 60, 'price': 45},
#         'spinach': {'quantity': 40, 'price': 20}
#     },
#     'dairy': {
#         'milk': {'quantity': 120, 'price': 33},
#         'cheese': {'quantity': 90, 'price': 70},
#         'yogurt': {'quantity': 70, 'price': 45}
#     }
# }
# choice = 0
# while choice != 6:
#     print("\n1. Display Inventory")
#     print("2. Make Purchase")
#     print("3. Restock Inventory")
#     print("4. Print Out of Stock Items")
#     print("5. Add more items")
```

```

#     print("6. Exit")
#     choice = int(input("Enter your choice: "))
#     if choice == 1:
#         print("Current Inventory:")
#         for category, items in inventory.items():
#             print(f"{category.capitalize()}:")
#             for item, details in items.items():
#                 print(f"    {item.capitalize()}: {details['quantity']}
(Price: Rs {details['price']})")
#     elif choice == 2:
#         item = input("Enter the item to purchase: ").lower()
#         quantity = int(input("Enter the quantity to purchase: "))
#         for category, items in inventory.items():
#             if item in items:
#                 if items[item]['quantity'] >= quantity:
#                     items[item]['quantity'] -= quantity
#                     print(
#                         f"Successfully purchased {quantity}
{item.capitalize()}. Remaining quantity: {items[item]['quantity']}."
#                     )
#                 else:
#                     print("Error: Not enough quantity in stock.")
#     elif choice == 3:
#         item = input("Enter the item to restock: ").lower()
#         quantity = int(input("Enter the quantity to restock: "))
#         for category, items in inventory.items():
#             if item in items:
#                 items[item]['quantity'] += quantity
#                 print(
#                     f"Successfully restocked {quantity}
{item.capitalize()}. Total quantity: {items[item]['quantity']}."
#                 )
#     elif choice == 4:
#         print("Out of Stock Items:")
#         for category, items in inventory.items():
#             for item, details in items.items():
#                 if details['quantity'] == 0:
#                     print(f"    {item.capitalize()}")
#     elif choice == 5:
#         category = input("Enter the category of the new item:
").lower()
#         item = input("Enter the name of the new item: ").lower()
#         quantity = int(input("Enter the quantity of the new item: "))
#         price = float(input("Enter the price of the new item: "))
#
#         if category in inventory:
#             if item not in inventory[category]:
#                 inventory[category][item] = {'quantity': quantity,
'price': price}
#                 print(f"Successfully added {item.capitalize()} to
{category.capitalize()} category.")
#             else:
#                 print("Error: Item already exists in the inventory.")
#         else:
#             inventory[category] = {item: {'quantity': quantity,
'price': price}}
#             print(f"Successfully added {item.capitalize()} to a new
category: {category.capitalize()}."
#         elif choice != 6:
#             print("Invalid choice. Please try again.")

```

```
#  
#  
# Roll_Dice
```



```
# import random  
# print(random.randint(1,6))  
  
# Rock_Paper_Scissors
```

The screenshot shows a VS Code editor with a dark theme. The Explorer sidebar on the left shows a project named 'mini project.py' with several files: 'diceroll.py', '40.py', 'q32.py', 'olt18.py', 'str.py', 'q1.py olt2', 'q2.py olt2', and 'q3.py olt2'. The 'FUNCTION' sidebar shows a file named 'olt2' with files '38.py', '39.py', '40.py', 'diceroll.py', 'function.py', 'mini project.py', 'olt1', 'olt1.py', 'olt1q5.py', and 'olt2.py'. The main editor window shows the code for 'diceroll.py' with line numbers 8 to 17. The code is a Python script for a Rock, Paper, Scissors game. The terminal at the bottom shows the command prompt 'PS C:\Users\yadve\OneDrive\Desktop\python\python\function>' and the execution of 'C:\Users\yadve\anaconda3\python.exe c:\Users\yadve\OneDrive\Desktop\python\python\function\diceroll.py'. The output shows the user entering 5 rounds, then Round 1 with 'paper' chosen by the user and 'rock' by the computer, resulting in a win for the user. Round 2 with 'scissors' chosen by the user and 'scissors' by the computer, resulting in a tie. The final output is 'You Win :)'. The status bar at the bottom shows 'Ln 5, Col 2', 'Spaces: 4', 'UTF-8', 'CRLF', 'Python', '3.11.5 (base: conda)', and 'Go Live'.

```
8 user_points = 0
9 computer_points = 0
10 for round_number in range(no_of_rounds):
11     user_action = input(f"Round {(round_number+1)}: Rock, Paper or Scissors: ")
12     while user_action not in ["rock", "paper", "scissors"]:
13         print("Invalid input. Please try again.")
14         user_action = input("Round {}: Rock, Paper or Scissors: ".format(round_number+1)).lower()
15     computer_action = random.choice(["rock", "paper", "scissors"])
16     print("Computer chose: {}".format(computer_action))
17     if user_action == computer_action:
```

PS C:\Users\yadve\OneDrive\Desktop\python\python\function> C:\Users\yadve\anaconda3\python.exe c:\Users\yadve\OneDrive\Desktop\python\python\function\diceroll.py

5

Enter the number of rounds: 2

Round 1: Rock, Paper or Scissors: paper

Computer chose: rock

You win this round!

Round 2: Rock, Paper or Scissors: scissors

Computer chose: scissors

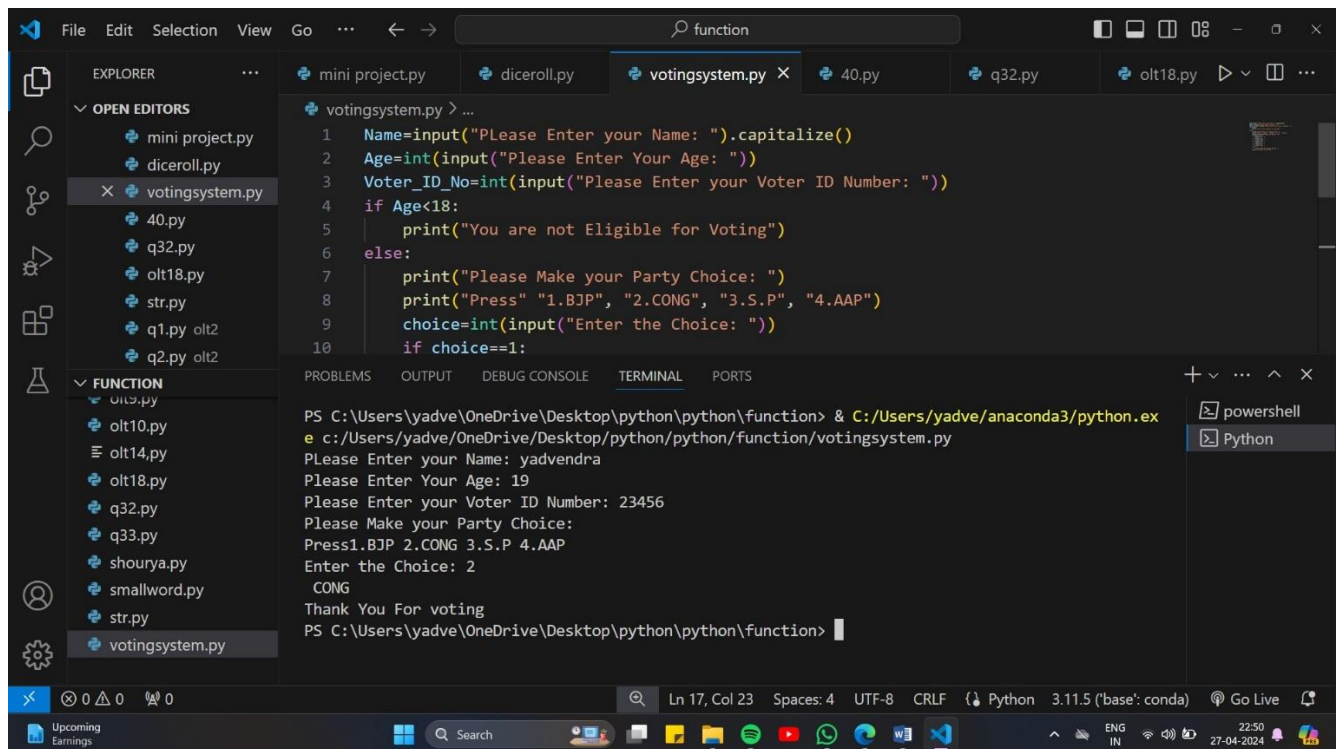
It's a tie!

You Win :)

PS C:\Users\yadve\OneDrive\Desktop\python\python\function>

```
#
#
# import random
# no_of_rounds=int(input("Enter the number of rounds: "))
# user_points = 0
# computer_points = 0
# for round_number in range(no_of_rounds):
#     user_action = input(f"Round {(round_number+1)}: Rock, Paper or Scissors: ")
#     while user_action not in ["rock", "paper", "scissors"]:
#         print("Invalid input. Please try again.")
#         user_action = input("Round {}: Rock, Paper or Scissors: ".format(round_number+1)).lower()
#     computer_action = random.choice(["rock", "paper", "scissors"])
#     print("Computer chose: {}".format(computer_action))
#     if user_action == computer_action:
#         print("It's a tie!")
#     elif (user_action == "rock" and computer_action == "scissors") or \
#         (user_action == "scissors" and computer_action == "paper") or \
#         (user_action == "paper" and computer_action == "rock"):
#         user_points += 1
#         print("You win this round!")
#     else:
#         computer_points += 1
#         print("Computer wins this round!")
# if user_points > computer_points:
#     print("\nYou Win :)")
# else:
#     print("\nYou Lose :(")
```

#voting System:

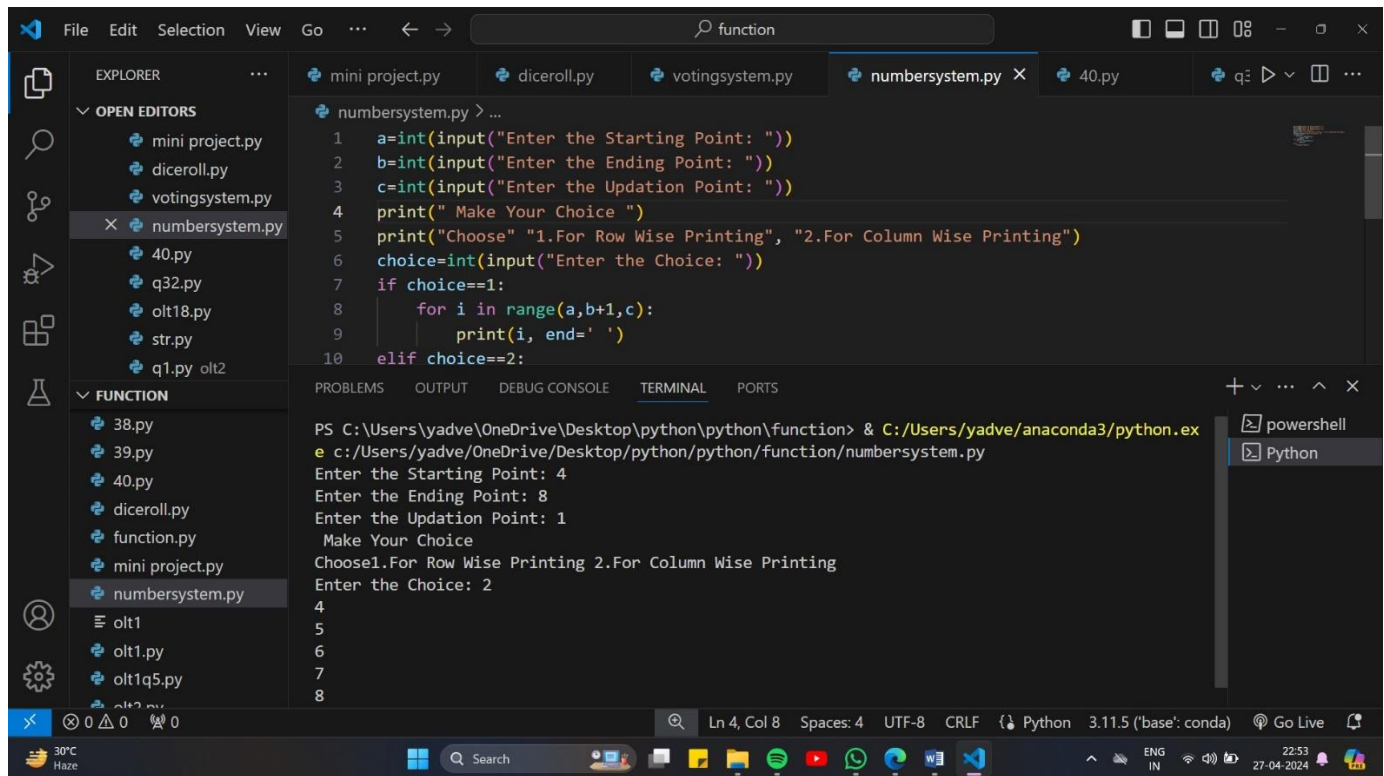


The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left lists several Python files, with 'votingsystem.py' selected. The main editor window displays the code for 'votingsystem.py'. The code prompts the user for their name, age, and voter ID, then checks if they are eligible to vote based on their age. If eligible, it prompts for a party choice (1.BJP, 2.CONG, 3.S.P, 4.AAP) and prints the chosen party. The bottom panel shows the TERMINAL output, which matches the code's execution: 'Please Enter your Name: yadvendra', 'Please Enter Your Age: 19', 'Please Enter your Voter ID Number: 23456', 'Please Make your Party Choice: Press1.BJP 2.CONG 3.S.P 4.AAP', 'Enter the Choice: 2', 'CONG', and 'Thank You For voting'.

```
1 Name=input("Please Enter your Name: ").capitalize()
2 Age=int(input("Please Enter Your Age: "))
3 Voter_ID_No=int(input("Please Enter your Voter ID Number: "))
4 if Age<18:
5     print("You are not Eligible for Voting")
6 else:
7     print("Please Make your Party Choice: ")
8     print("Press" "1.BJP", "2.CONG", "3.S.P", "4.AAP")
9     choice=int(input("Enter the Choice: "))
10    if choice==1:
11        print(" BJP ")
12    elif choice==2:
13        print(" CONG ")
14    elif choice==3:
15        print(" S.P ")
16    elif choice==4:
17        print(" AAP ")
18    else:
19        print("You choose an Invalid Choice: ")
20    print("Thank You For voting")
```

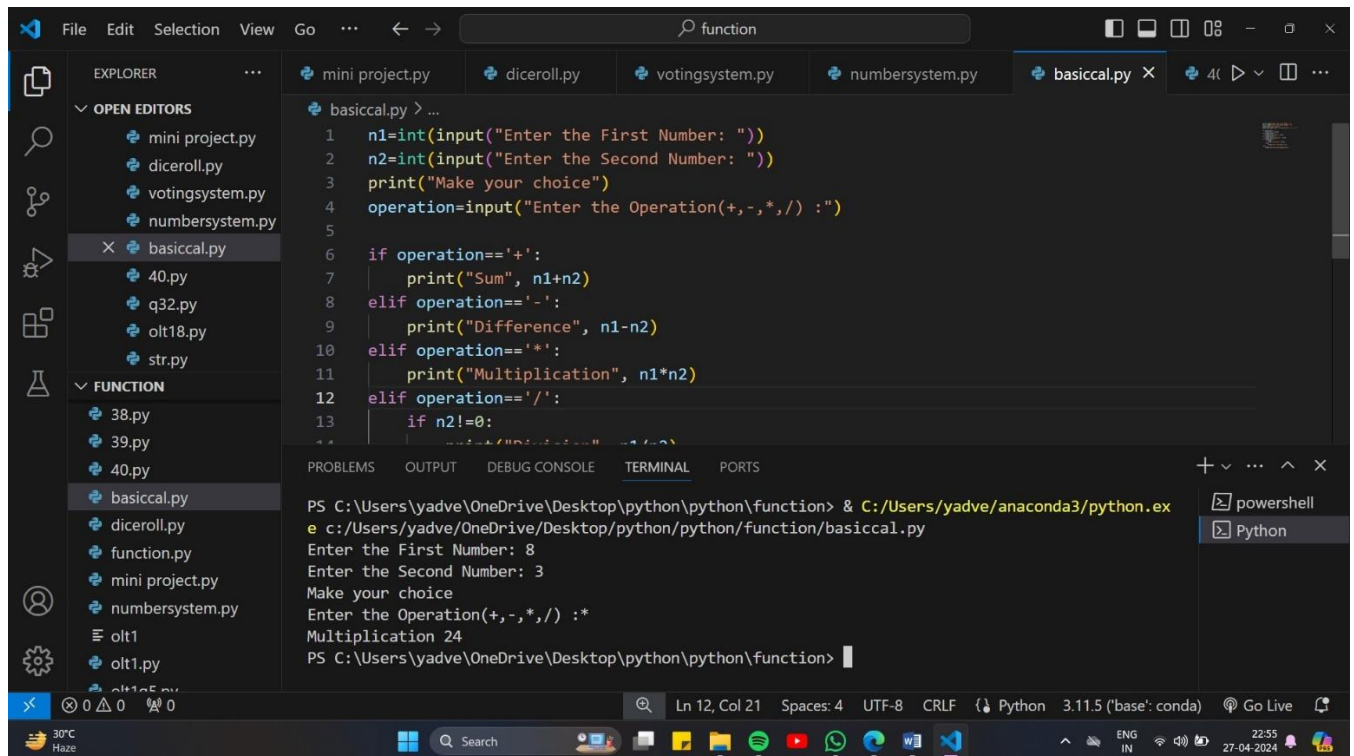
```
# Name=input("Please Enter your Name: ").capitalize()
# Age=int(input("Please Enter Your Age: "))
# Voter_ID_No=int(input("Please Enter your Voter ID Number: "))
# if Age<18:
#     print("You are not Eligible for Voting")
# else:
#     print("Please Make your Party Choice: ")
#     print("Press" "1.BJP", "2.CONG", "3.S.P", "4.AAP")
#     choice=int(input("Enter the Choice: "))
#     if choice==1:
#         print(" BJP ")
#     elif choice==2:
#         print(" CONG ")
#     elif choice==3:
#         print(" S.P ")
#     elif choice==4:
#         print(" AAP ")
#     else:
#         print("You choose an Invalid Choice: ")
#     print("Thank You For voting")
```

Number system:



```
# a=int(input("Enter the Starting Point: "))
# b=int(input("Enter the Ending Point: "))
# c=int(input("Enter the Updation Point: "))
# print("## Make Your Choice ##")
# print("Choose" "1.For Row Wise Printing", "2.For Column Wise Printing")
# choice=int(input("Enter the Choice: "))
# if choice==1:
#     for i in range(a,b+1,c):
#         print(i, end=' ')
# elif choice==2:
#     for i in range(a,b+1,c):
#         print(i)
# else:
#     ("Invalid Choice")
```

#Basic Calculator:



```
# n1=int(input("Enter the First Number: "))
# n2=int(input("Enter the Second Number: "))
# print("Make your choice")
# operation=input("Enter the Operation(+,-,*,/) :")
```

```
# if operation=='+':
#     print("Sum", n1+n2)
# elif operation=='-':
#     print("Difference", n1-n2)
# elif operation=='*':
#     print("Multiplication", n1*n2)
# elif operation=='/':
#     if n2!=0:
#         print("Division", n1/n2)
#     else:
#         print("Can`t Divided by 0")
# else:
#     print("Invalid Choice/Operation")
```

```
#Student grading system:
```

```
1 STD_Name=input("Enter the name of Student: ")
2 Class=input("Enter the class of the student:")
3 Sec=input("Enter the section of the student: ")
4 Roll_No=int(input("Enter the Roll No: "))
5 print("Enter the marks of the Subjects")
6 Maths=int(input("Enter the marks of the Maths Subject: "))
7 Chemistry=int(input("Enter the marks of the Chemistry Subject: "))
```

PS C:\Users\yadve\OneDrive\Desktop\python\python\function> & C:/Users/yadve/anaconda3/python.exe
c:\Users\yadve\OneDrive\Desktop\python\python\function\studentgradingsytm.py
Enter the name of Student: Shourya
Enter the class of the student:bc
Enter the section of the student: bc
Enter the Roll No: 74
Enter the marks of the Subjects
Enter the marks of the Maths Subject: 99
Enter the marks of the Chemistry Subject: 99
Enter the marks of the Electronics Subject: 99
Enter the marks of the Python_Programming Subject: 99
Enter the marks of the English Subject: 99
495
99.0 %
A grade
You Have Done an Excellent Work

```
# STD_Name=input("Enter the name of Student: ")
# Class=input("Enter the class of the student:")
# Sec=input("Enter the section of the student: ")
# Roll_No=int(input("Enter the Roll No: "))
# print("Enter the marks of the Subjects")
# Maths=int(input("Enter the marks of the Maths Subject: "))
# Chemistry=int(input("Enter the marks of the Chemistry Subject: "))
# Electronics=int(input("Enter the marks of the Electronics Subject: "))
# Python_Programming=int(input("Enter the marks of the Python_Programming
Subject: "))
# English=int(input("Enter the marks of the English Subject: "))
# Total_Marks=Maths+Chemistry+Electronics+Python_Programming+English
# Percentage=Total_Marks/5
# print(Total_Marks)
# print(Percentage,"%")
# if Percentage>90:
#     print("A grade")
#     print("You Have Done an Excellent Work")
# elif Percentage>75:
#     print("B Grade")
#     print("Good job")
# elif Percentage>55:
#     print("C Grade")
#     print("You need to improve")
# elif Percentage>35:
#     print("D Grade")
#     print("You need to work hard")
# else:
#     print("You Failed")

# import random
```


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main.py

```
1 import random
2 print(random.choice([1,2,3,4]))
3
4
```

Output

2

=== Code Execution Successful ===

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```
# print(random.choice([1,2,3,4]))
```

```
import numpy as np
```

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main.py

```
1 import numpy as np
2 arr=np.array([[1,2,3],[4,5,6]])
3 print(arr.shape)
4
```

Output

(2, 3)

=== Code Execution Successful ===

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```
arr=np.array([[1,2,3],[4,5,6]])
print(arr.shape)
```