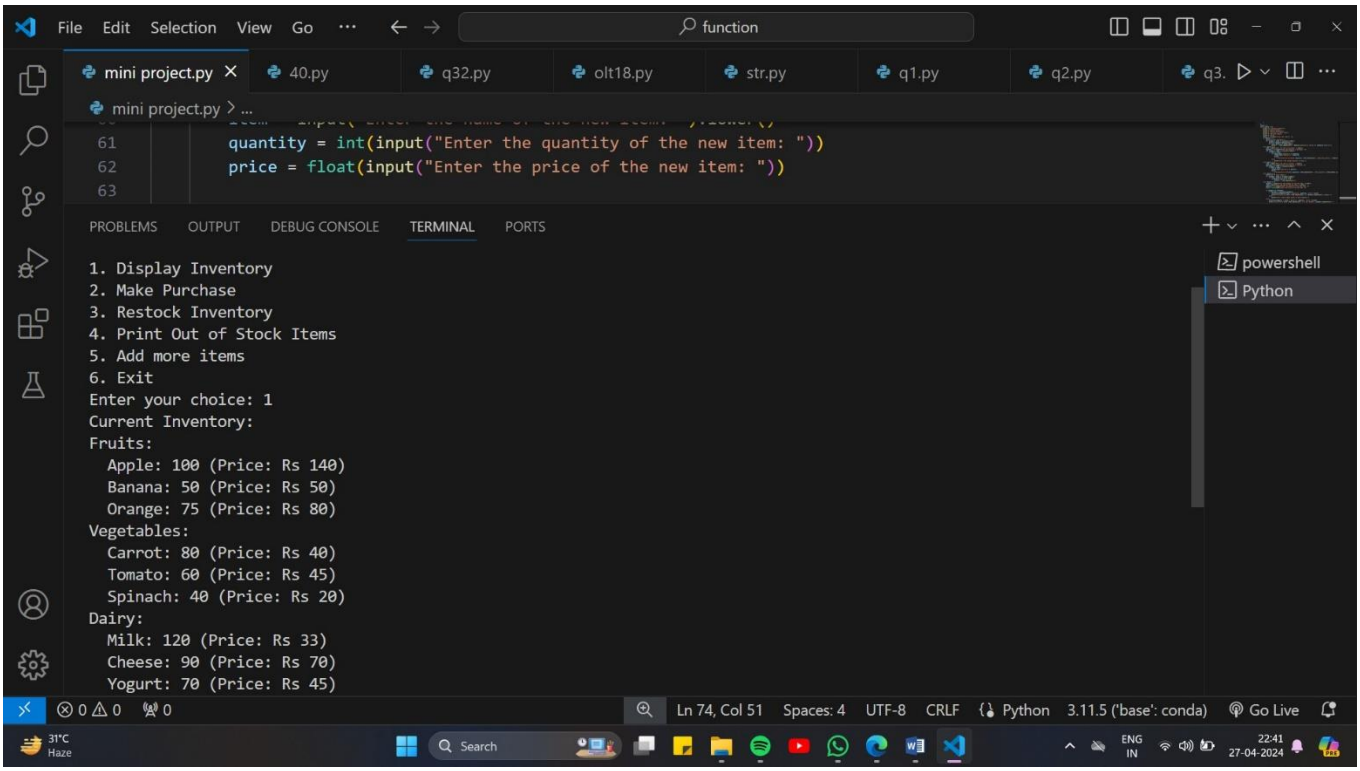
NAME-YADVENDRA SINGH
SECTION-BC2
UNIVERSITY ROLLNO-74

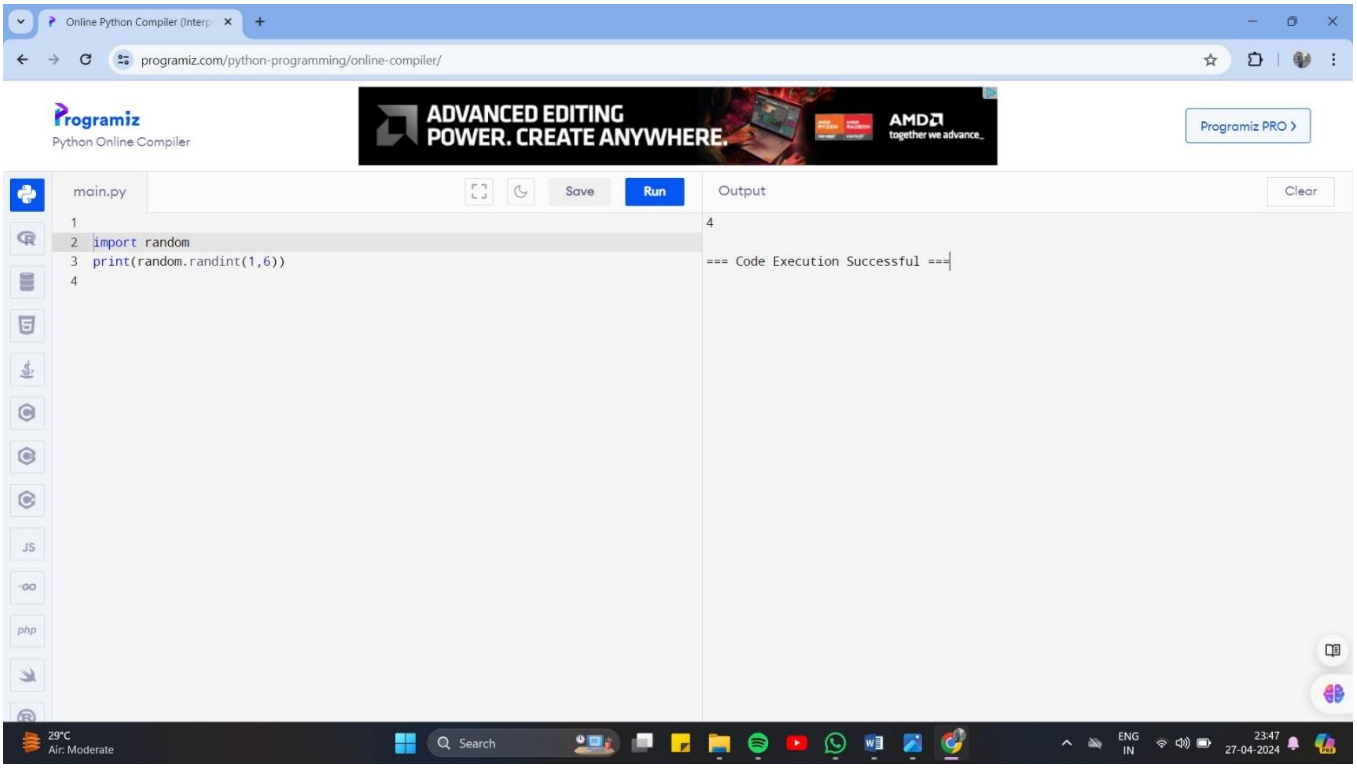
Inventory_System



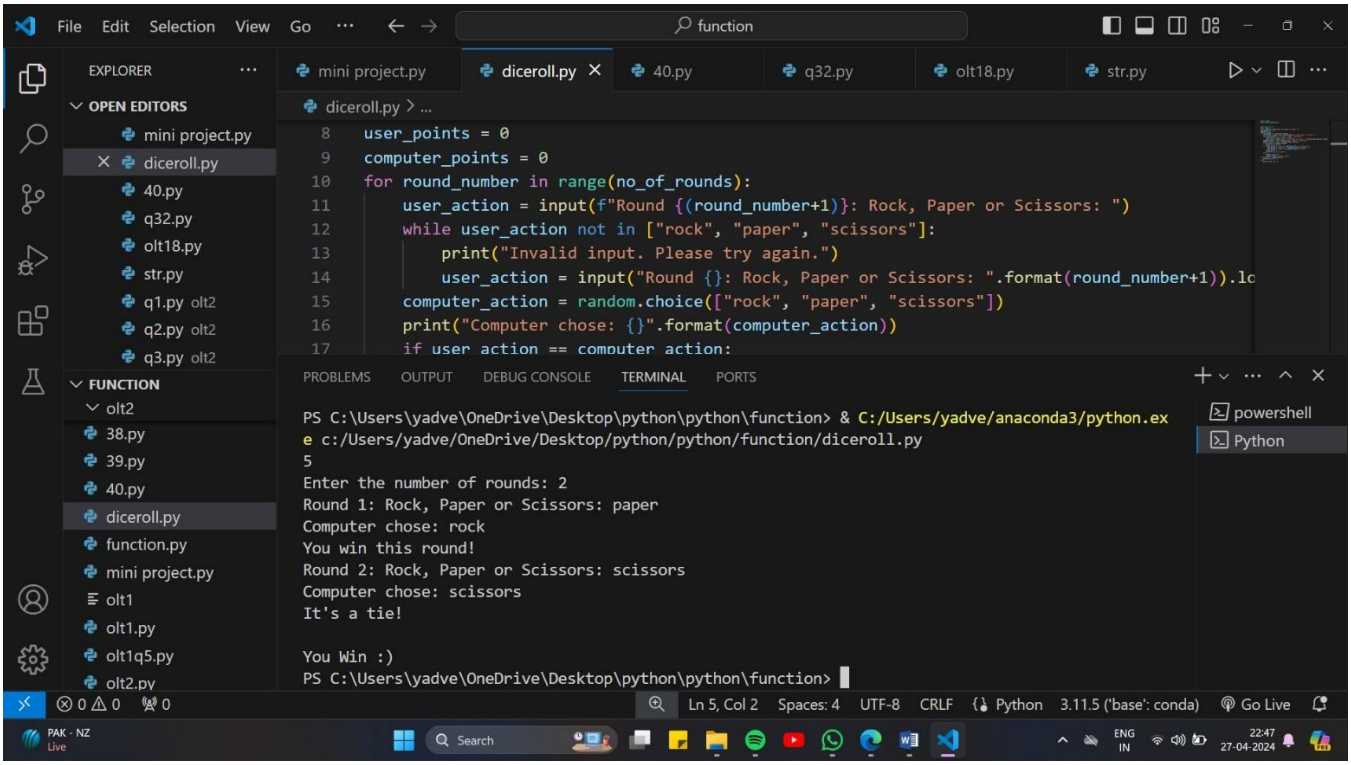

```
# inventory = {
#     'fruits': {
#         'apple': {'quantity': 100, 'price': 140},
#         'banana': {'quantity': 50, 'price': 50},
#         'orange': {'quantity': 75, 'price': 80}
#     },
#     'vegetables': {
#         'carrot': {'quantity': 80, 'price': 40},
#         'tomato': {'quantity': 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
```

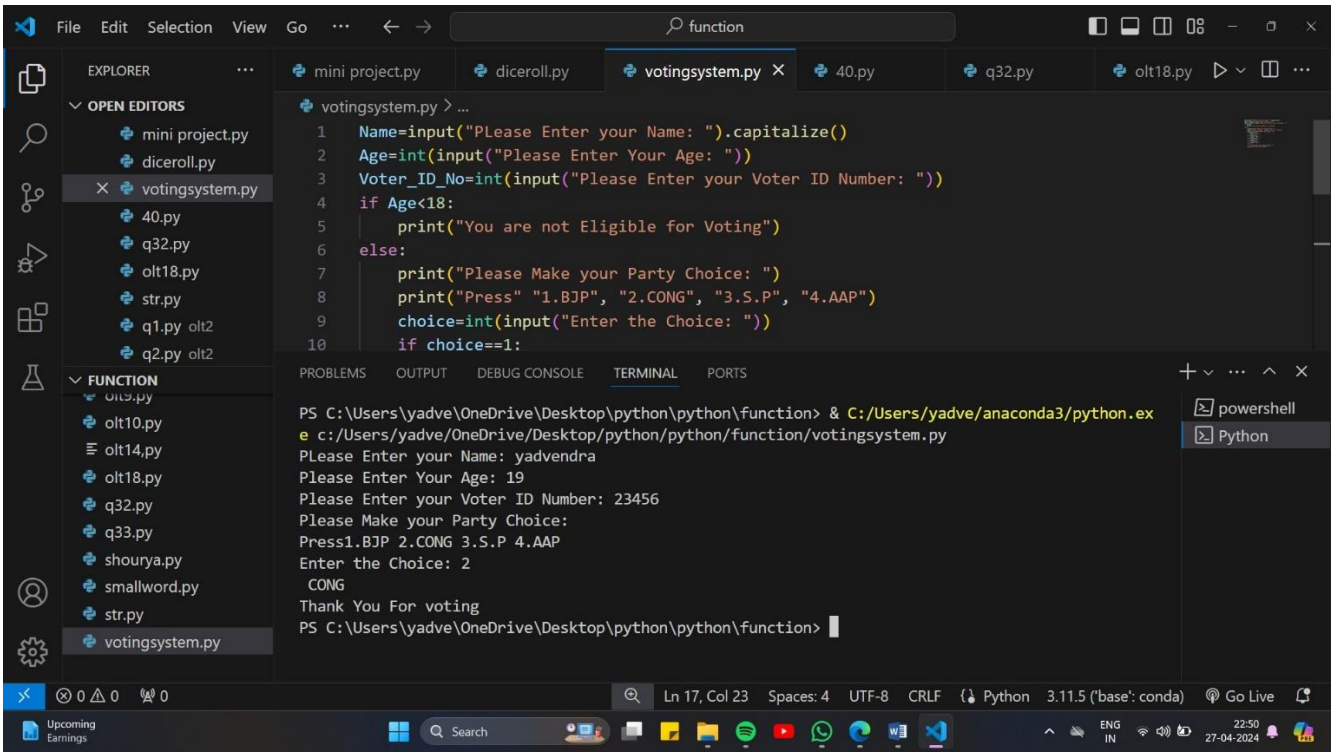



```
# import random
# print(random.randint(1,6))

# Rock_Paper_Scissors
```



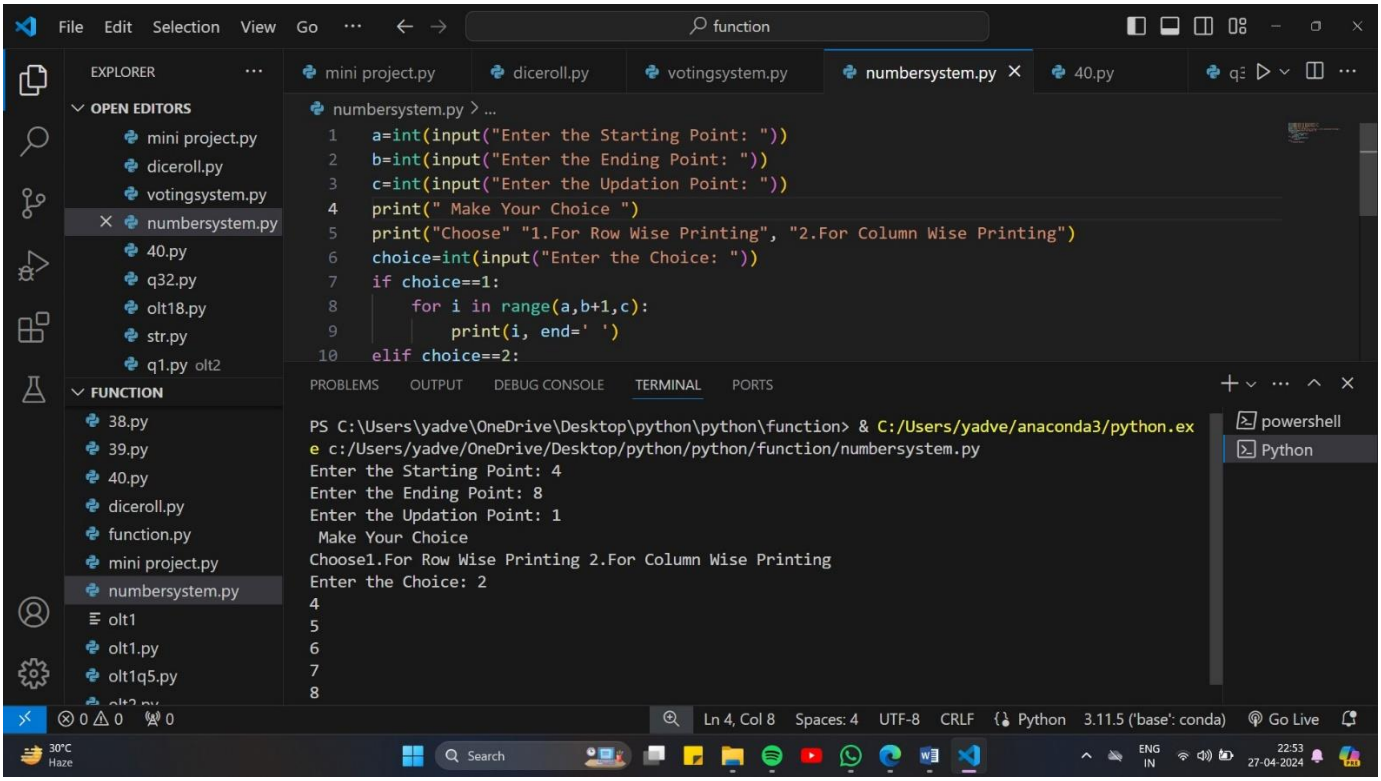

```
#
#

# 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:

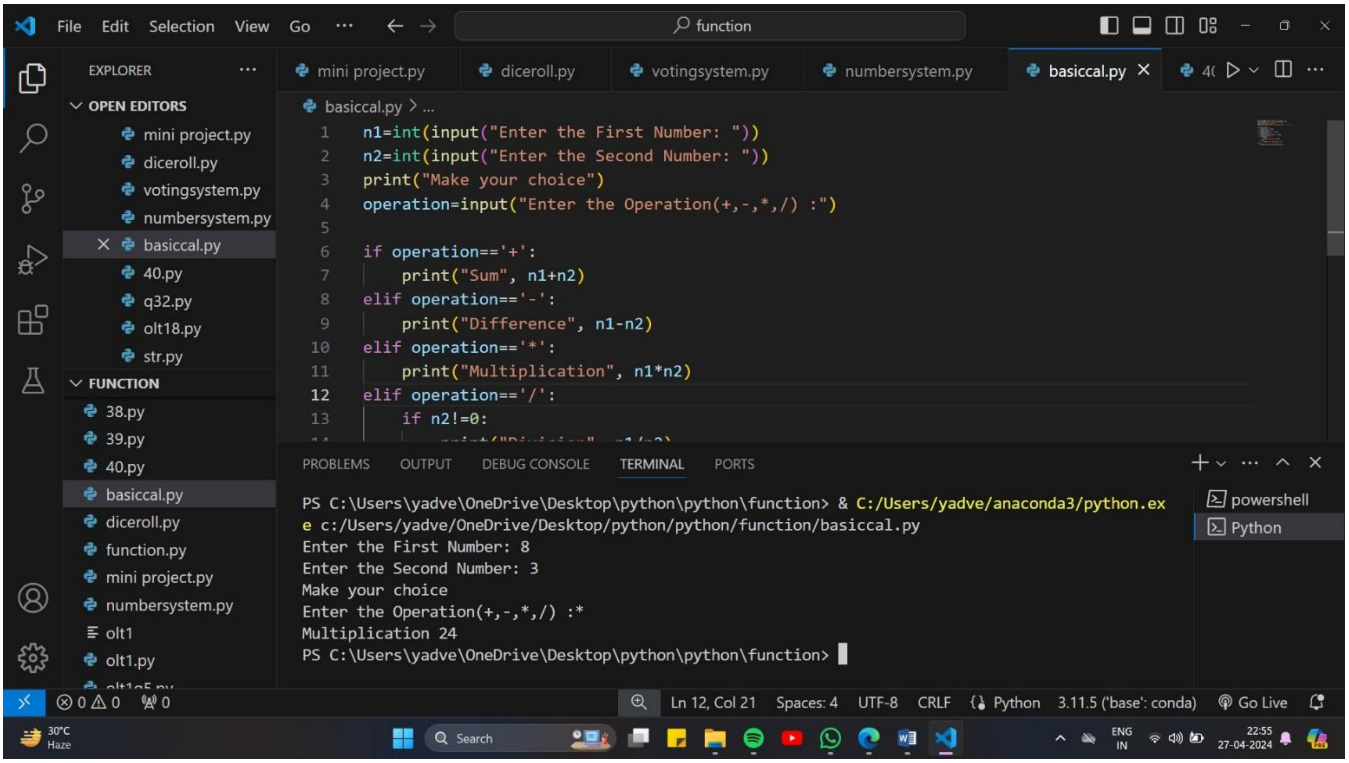



```
# Name=input("PLease Enter your Name: ").capitalize()
# Age=int(input("Please Enter Your Age: "))
# Voter_ID_No=int(input("Please Enter your Voter ID Number: "))
# if Age<18:
#     print("You are not Eligible for Voting")
# else:
#     print("Please Make your Party Choice: ")
#     print("Press" "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:
#         ("You choose an Invalid Choice: ")
#     print("Thank You For voting")
```

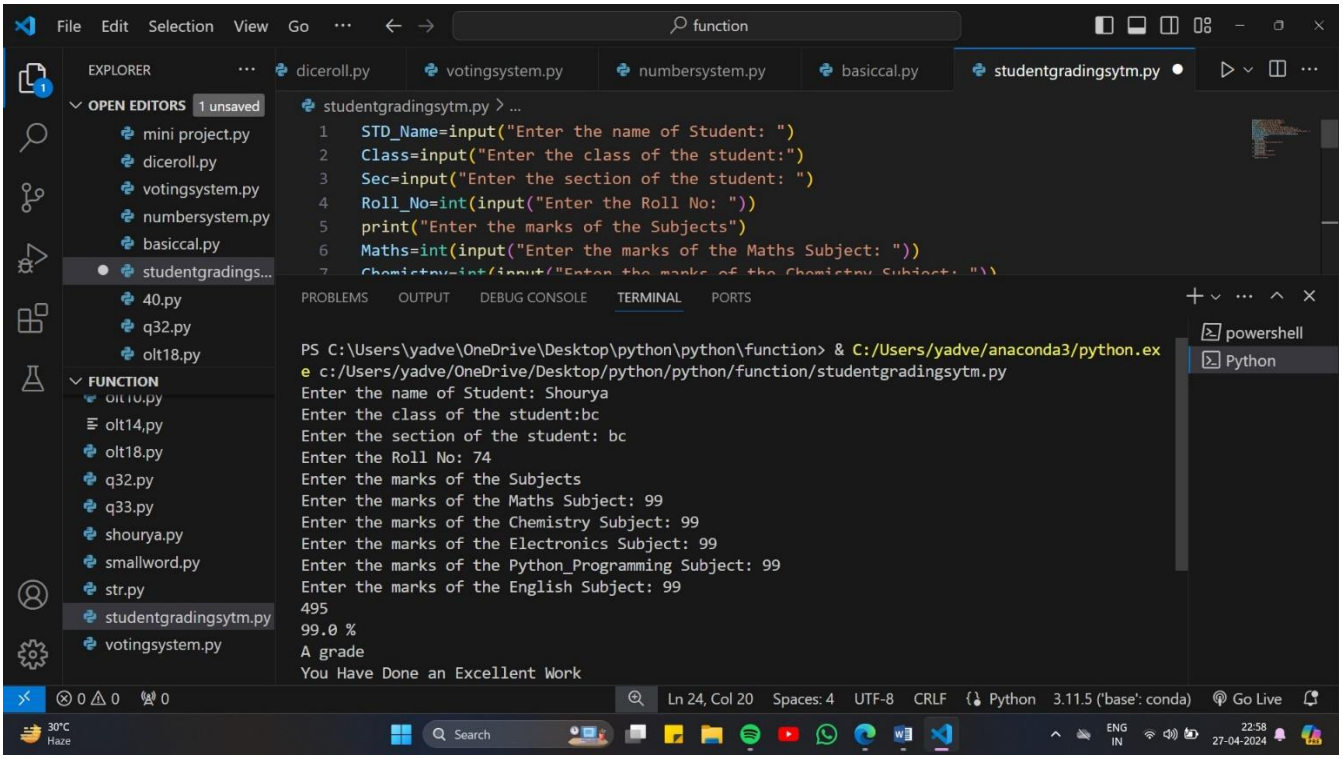
Number system:



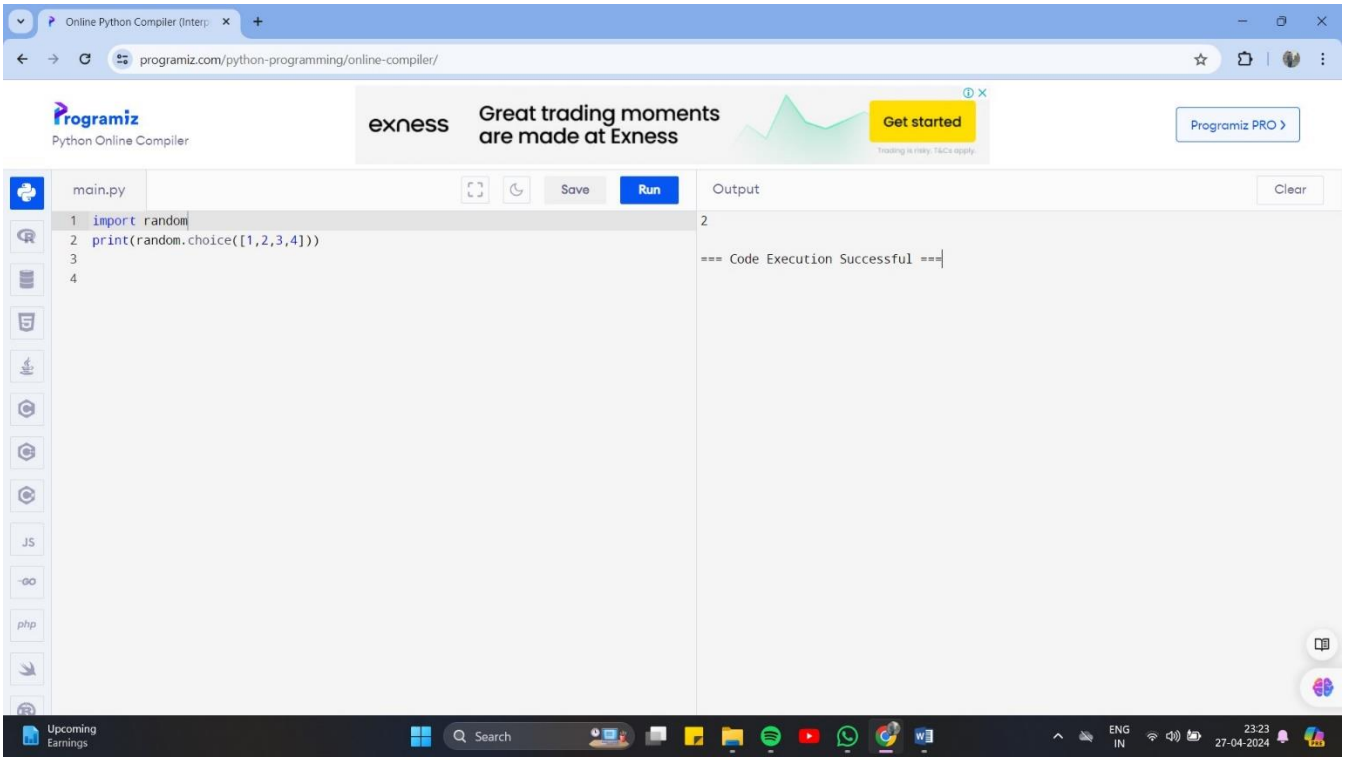

```
# a=int(input("Enter the Starting Point: "))
# b=int(input("Enter the Ending Point: "))
# c=int(input("Enter the Updation Point: "))
# print("## Make Your Choice ##")
# print("Choose" "1.For Row Wise Printing", "2.For Column Wise Printing")
# choice=int(input("Enter the Choice: "))
# if choice==1:
#     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:
```



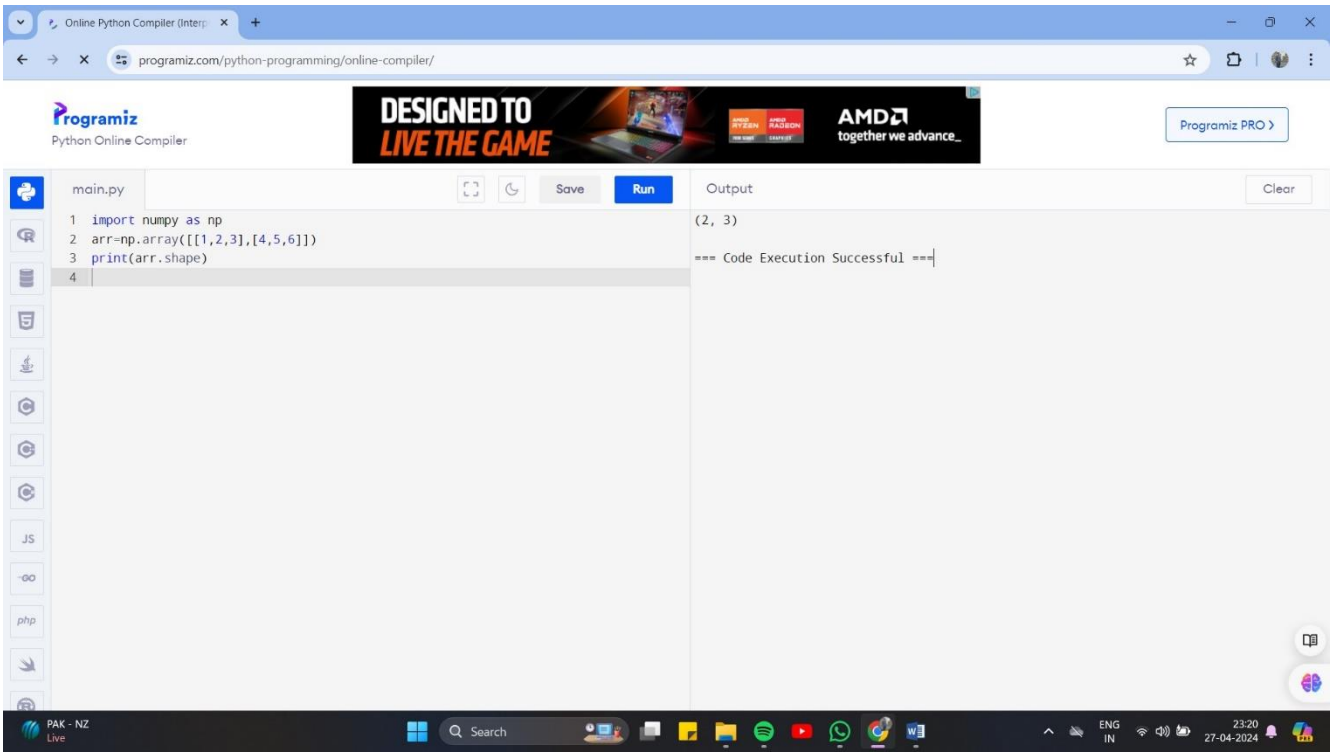

```
# n1=int(input("Enter the First Number: "))
# n2=int(input("Enter the Second Number: "))
# print("Make your choice")
# operation=input("Enter the Operation(+,-,*,/) :")

# 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:
```




```
# 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
```




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

import numpy as np
```




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