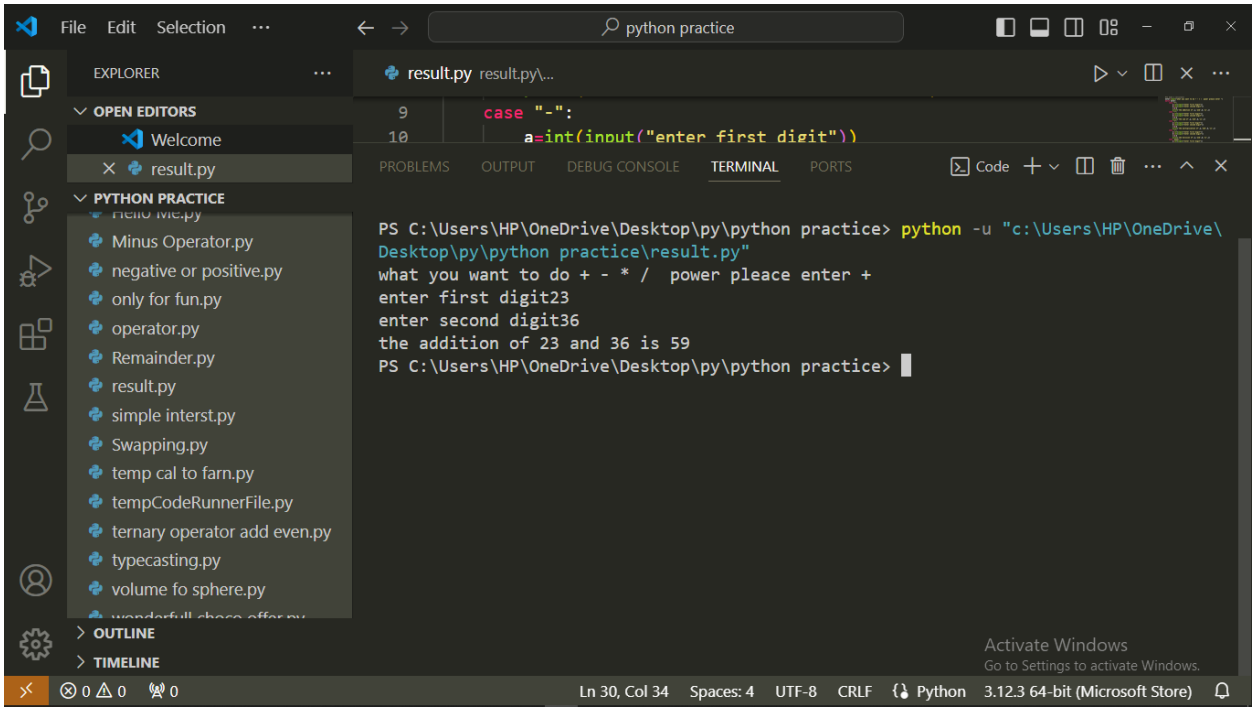
*Name ANSHUL YADAV Sec BC 1*

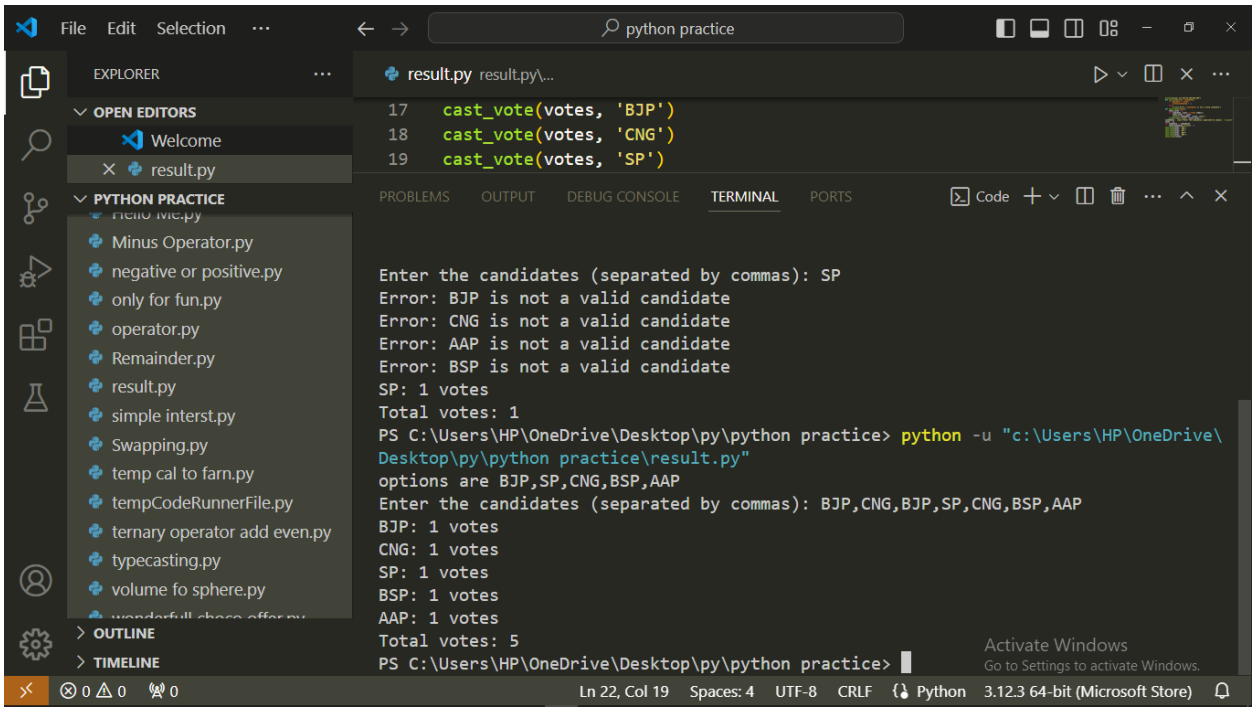
```
#to make a calculator
enter=input("what you want to do + - * /  power pleace enter ")
match enter:
   case "+":
      a=int(input("enter first digit"))
      b=int(input("enter second digit"))
      c=a+b
      print('the addition of',a,'and',b,'is',c)
   case "-":
      a=int(input("enter first digit"))
      b=int(input("enter second digit"))
      c=a-b
      print('the sub of',a,'and',b,'is',c)
   case "*":
      a=int(input("enter first digit"))
      b=int(input("enter second digit"))
      c=a*b
      print('the multiplication of',a,'and',b,'is',c)
   case "/":
      a=int(input("enter first digit"))
      b=int(input("enter second digit"))
```

```
    c=a/b
    print('the division of',a,'and',b,'is',c)
case 'power':
    a=int(input("enter first digit"))
    b=int(input("enter power digit"))
    c=a**b
    print('the power value of',a,'is',b,'is hance soln is',c)
case _:
    print("error ........  ")
```



Voting system

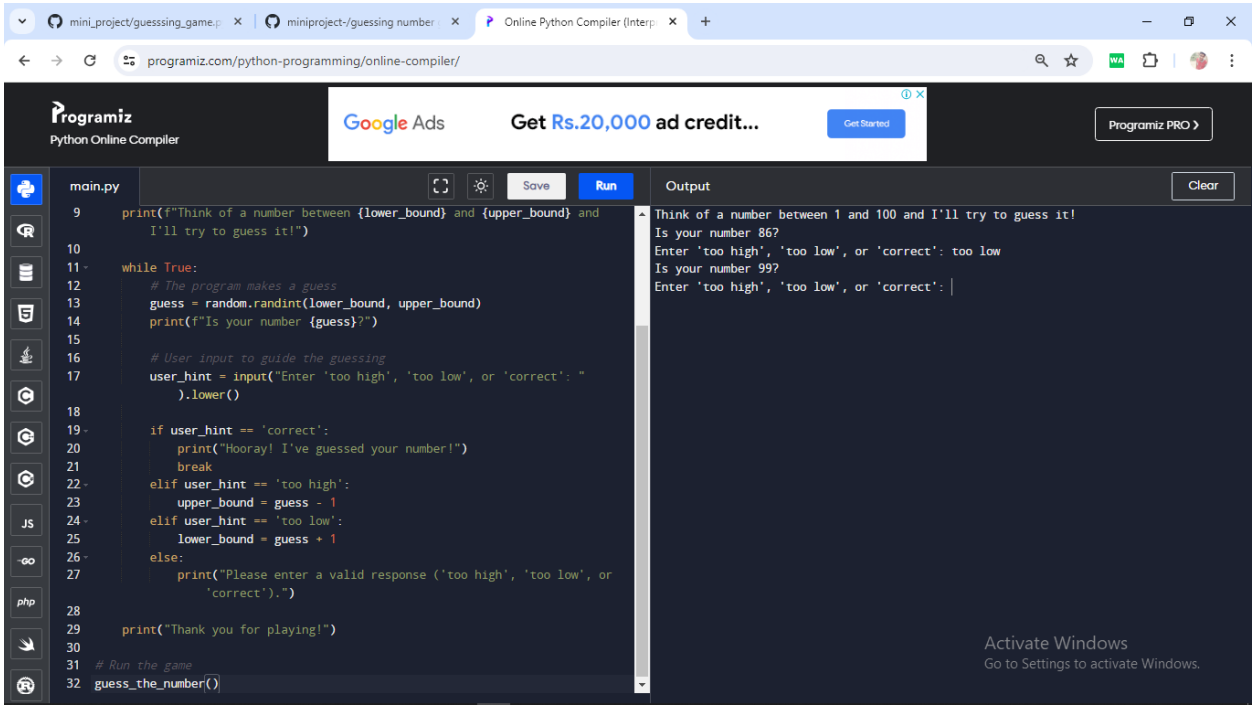
```
print("options are BJP,SP,CNG,BSP,AAP")
def cast_vote(votes, candidate):
    if candidate in votes:
        votes[candidate] += 1
    else:
        print(f'Error: {candidate} is not a valid candidate')
def tally_votes(votes):
    total_votes = 0
    for candidate, count in votes.items():
        total_votes += count
        print(f'{candidate}: {count} votes')
    print(f'Total votes: {total_votes}')
candidates = input('Enter the candidates (separated by commas): ').split(',')
votes = {}
for candidate in candidates:
    votes[candidate.strip()] = 0
cast_vote(votes, 'BJP')
cast_vote(votes, 'CNG')
cast_vote(votes, 'SP')
cast_vote(votes, 'AAP')
cast_vote(votes, 'BSP')
tally_votes(votes)
```




#guessing number game import random

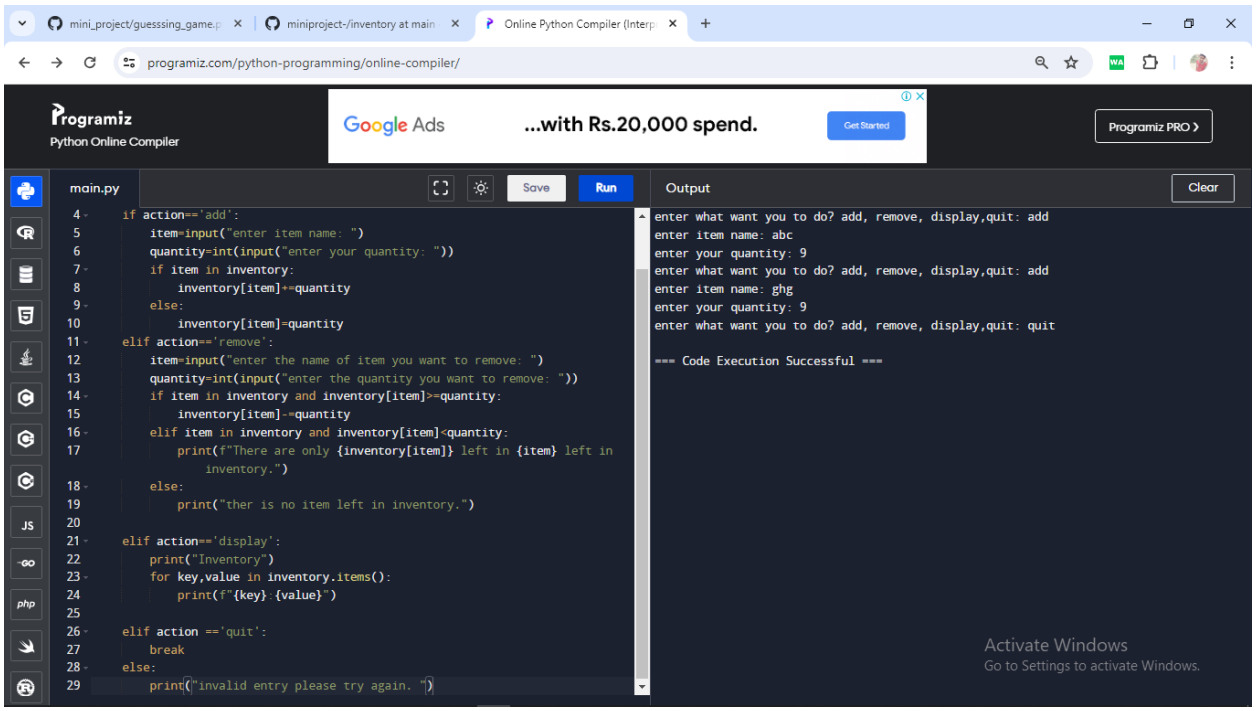
```
def guess_the_number():
    # The range within which the user is thinking of a number
    lower_bound = 1
    upper_bound = 100

    # Prompt the user for a number
    print(f"Think of a number between {lower_bound} and {upper_bound} and I'll try to guess it!")

    while True:
        # The program makes a guess
        guess = random.randint(lower_bound, upper_bound)
        print(f"Is your number {guess}?")
```

```
        # User input to guide the guessing
        user_hint = input("Enter 'too high', 'too low', or 'correct': ").lower()

        if user_hint == 'correct':
            print("Hooray! I've guessed your number!")
            break
        elif user_hint == 'too high':
            upper_bound = guess - 1
        elif user_hint == 'too low':
            lower_bound = guess + 1
        else:
            print("Please enter a valid response ('too high', 'too low', or 'correct').")

    print("Thank you for playing!")

# Run the game
guess_the_number()
```



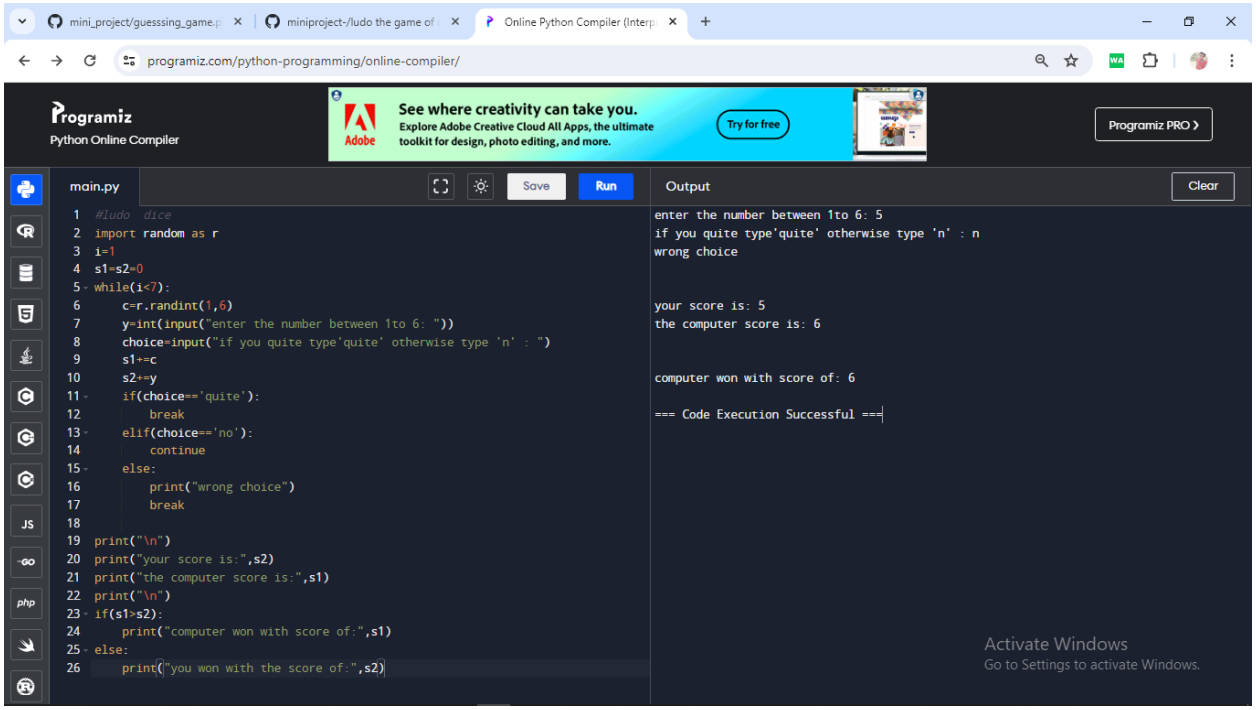

```
#inventory

inventory={}

while True:

    action= input("enter what want you to do? add, remove, display,quit: ")

    if action=='add':

        item=input("enter item name: ")

        quantity=int(input("enter your quantity: "))

        if item in inventory:

            inventory[item]+=quantity

        else:

            inventory[item]=quantity

    elif action=='remove':

        item=input("enter the name of item you want to remove: ")
```

```
    quantity=int(input("enter the quantity you want to remove: "))
    if item in inventory and inventory[item]>=quantity:
        inventory[item]-=quantity
    elif item in inventory and inventory[item]<quantity:
        print(f"There are only {inventory[item]} left in {item} left in inventory.")
    else:
        print("ther is no item left in inventory.")


elif action=='display':
    print("Inventory")
    for key,value in inventory.items():
        print(f"{key}:{value}")


elif action =='quit':
    break
else:
    print("invalid entry please try again. ")
```



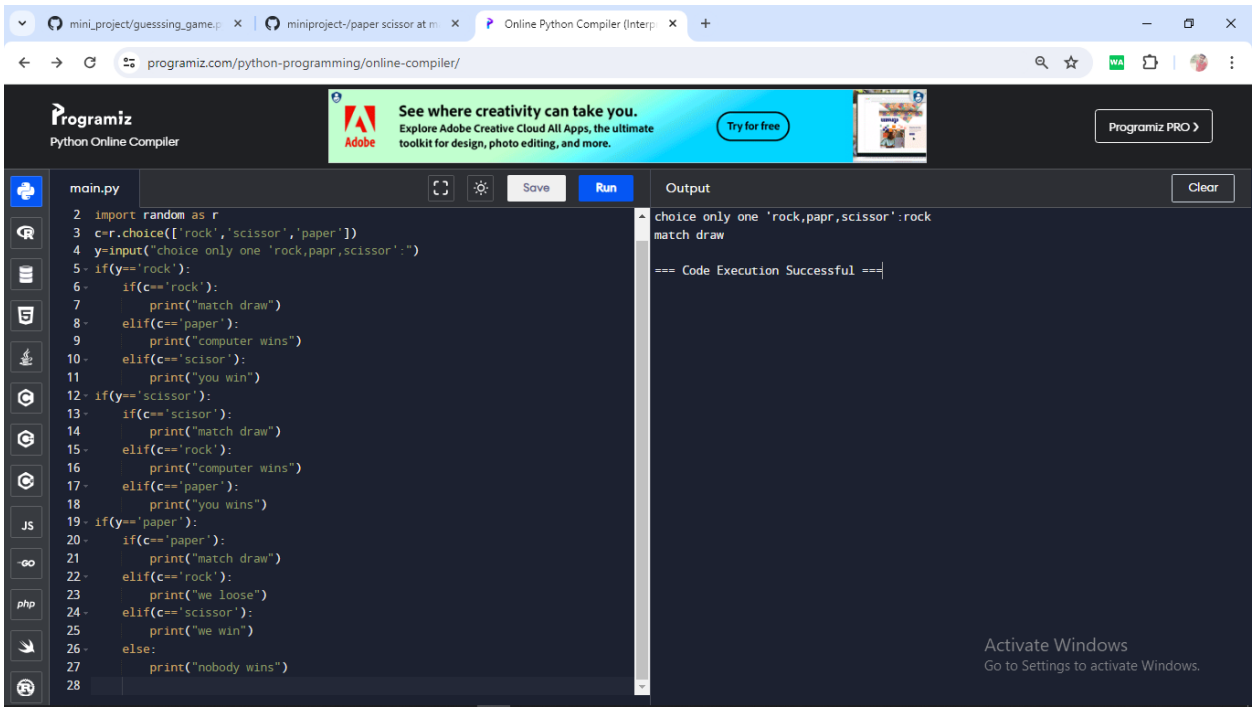

```
#ludo  dice

import random as r

i=1

s1=s2=0

while(i<7):

   c=r.randint(1,6)

   y=int(input("enter the number between 1to 6: "))

   choice=input("if you quite type'quite' otherwise type 'n' : ")

   s1+=c

   s2+=y

   if(choice=='quite'):

      break

   elif(choice=='no'):

      continue

   else:
```

```
        print("wrong choice")
        break


print("\n")
print("your score is:",s2)
print("the computer score is:",s1)
print("\n")
if(s1>s2):
    print("computer won with score of:",s1)
else:
    print("you won with the score of:",s2)
```




```
#rock paper scissor
import random as r
c=r.choice(['rock','scissor','paper'])
y=input("choice only one 'rock,papr,scissor':")
```

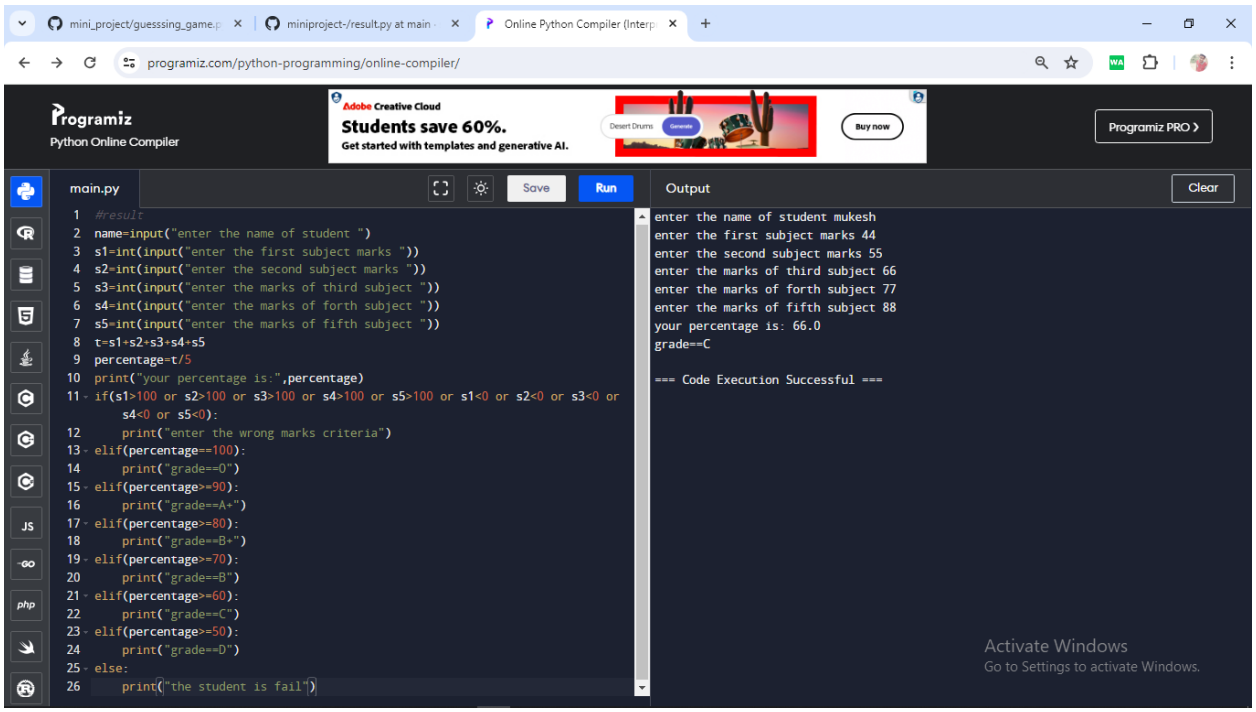
```
if(y=='rock'):
    if(c=='rock'):
        print("match draw")
    elif(c=='paper'):
        print("computer wins")
    elif(c=='scisor'):
        print("you win")
if(y=='scissor'):
    if(c=='scisor'):
        print("match draw")
    elif(c=='rock'):
        print("computer wins")
    elif(c=='paper'):
        print("you wins")
if(y=='paper'):
    if(c=='paper'):
        print("match draw")
    elif(c=='rock'):
        print("we loose")
    elif(c=='scissor'):
        print("we win")
    else:
        print("nobody wins")
```




#result

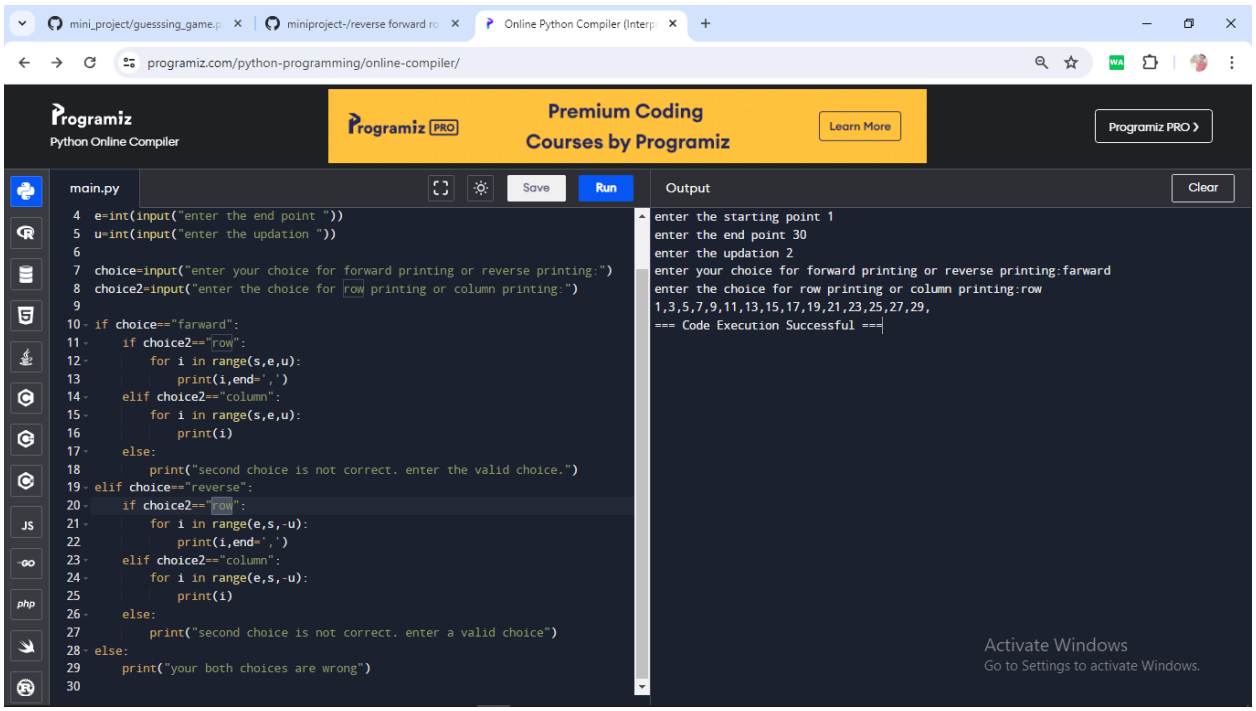
```
name=input("enter the name of student ")
s1=int(input("enter the first subject marks "))
s2=int(input("enter the second subject marks "))
s3=int(input("enter the marks of third subject "))
s4=int(input("enter the marks of forth subject "))
s5=int(input("enter the marks of fifth subject "))
t=s1+s2+s3+s4+s5
percentage=t/5
print("your percentage is:",percentage)
if(s1>100 or s2>100 or s3>100 or s4>100 or s5>100 or s1<0 or s2<0 or s3<0 or s4<0 or s5<0):
    print("enter the wrong marks criteria")
elif(percentage==100):
    print("grade==O")
elif(percentage>=90):
```

```
    print("grade==A+")
elif(percentage>=80):
    print("grade==B+")
elif(percentage>=70):
    print("grade==B")
elif(percentage>=60):
    print("grade==C")
elif(percentage>=50):
    print("grade==D")
else:
    print("the student is fail")
```




```
#reverse forward row,column printing
s=int(input("enter the starting point "))
e=int(input("enter the end point "))
```

```
u=int(input("enter the updation "))


choice=input("enter your choice for forward printing or reverse printing:")
choice2=input("enter the choice for row printing or column printing:")


if choice=="farward":
    if choice2=="row":
        for i in range(s,e,u):
            print(i,end=',')
    elif choice2=="column":
        for i in range(s,e,u):
            print(i)
    else:
        print("second choice is not correct. enter the valid choice.")
elif choice=="reverse":
    if choice2=="row":
        for i in range(e,s,-u):
            print(i,end=',')
    elif choice2=="column":
        for i in range(e,s,-u):
            print(i)
    else:
        print("second choice is not correct. enter a valid choice")
else:
    print("your both choices are wrong")
```


mini_project/guesssing_game.p
miniproject-/reverse forward ro
Online Python Compiler (Interp
programiz.com/python-programming/online-compiler/
Programiz
Python Online Compiler
Programiz PRO
Premium Coding
Courses by Programiz
Learn More
Programiz PRO ›
main.py
Save
Run
Output
Clear
4 e=int(input("enter the end point "))
5 u=int(input("enter the updation "))
6
7 choice=input("enter your choice for forward printing or reverse printing:")
8 choice2=input("enter the choice for row printing or column printing:")
9
10 if choice=="farward":
11 if choice2=="row":
12 for i in range(s,e,u):
13 print(i,end=',')
14 elif choice2=="column":
15 for i in range(s,e,u):
16 print(i)
17 else:
18 print("second choice is not correct. enter the valid choice.")
19 elif choice=="reverse":
20 if choice2=="row":
21 for i in range(e,s,-u):
22 print(i,end=',')
23 elif choice2=="column":
24 for i in range(e,s,-u):
25 print(i)
26 else:
27 print("second choice is not correct. enter a valid choice")
28 else:
29 print("your both choices are wrong")
30
enter the starting point 1
enter the end point 30
enter the updation 2
enter your choice for forward printing or reverse printing:farward
enter the choice for row printing or column printing:row
1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,
=== Code Execution Successful ===
Activate Windows
Go to Settings to activate Windows.