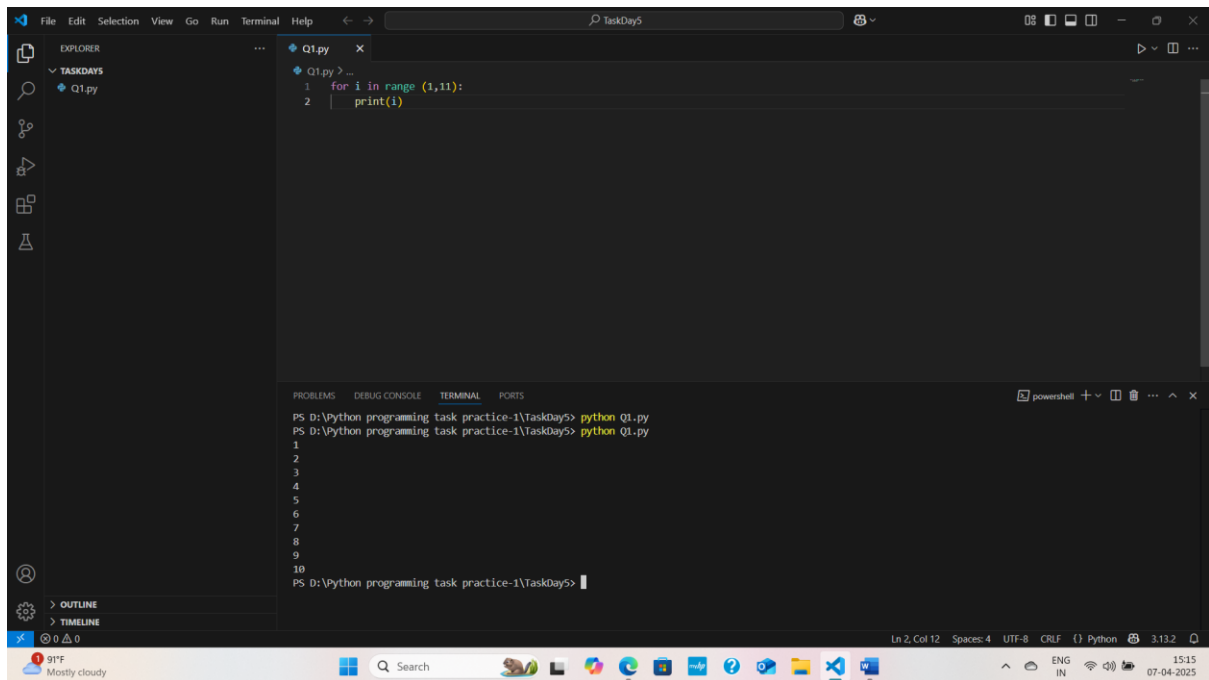


Q1.

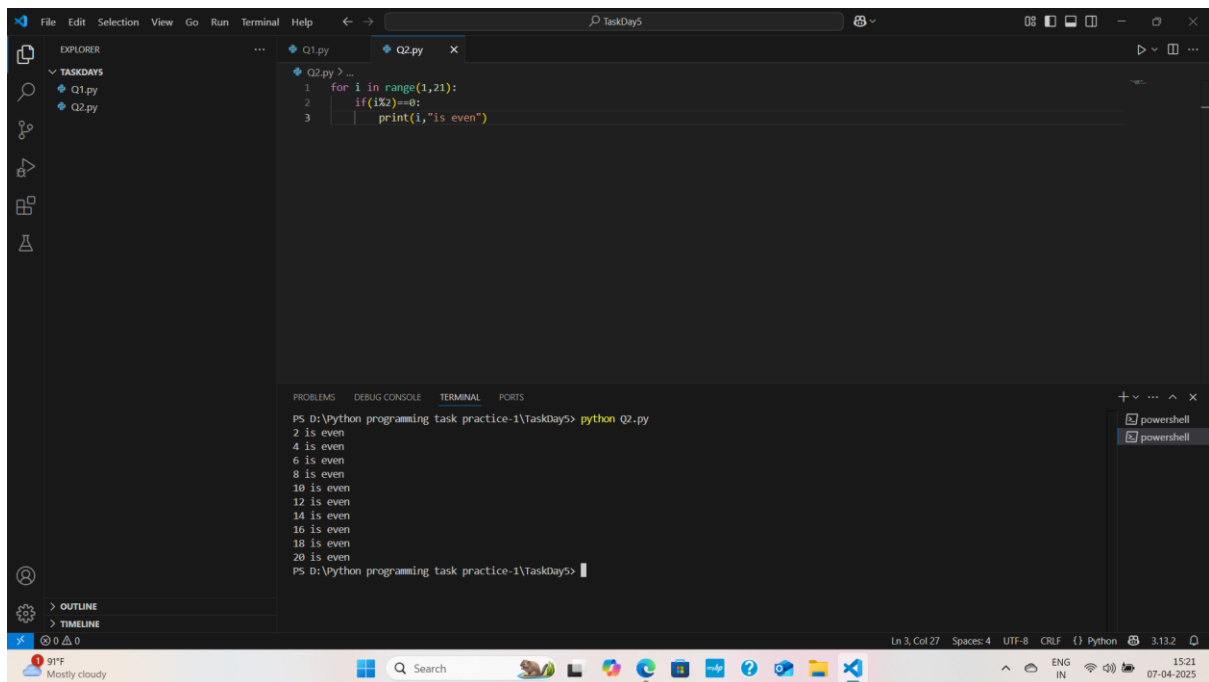


The screenshot shows the Visual Studio Code interface with a file named `Q1.py` open. The code in the editor is a simple loop that prints numbers from 1 to 10. The terminal at the bottom shows the command `python Q1.py` being executed, resulting in the numbers 1 through 10 being printed on separate lines. The Explorer sidebar on the left shows the file structure with `Q1.py` under a folder named `TASKDAYS`. The status bar at the bottom indicates the file is at line 2, column 12, with 4 spaces, using UTF-8 encoding and CRLF line endings.

```
Q1.py
1 for i in range(1,11):
2     print(i)
```

```
PS D:\Python programming task practice-1\TaskDay5> python Q1.py
1
2
3
4
5
6
7
8
9
10
PS D:\Python programming task practice-1\TaskDay5>
```

Q2.

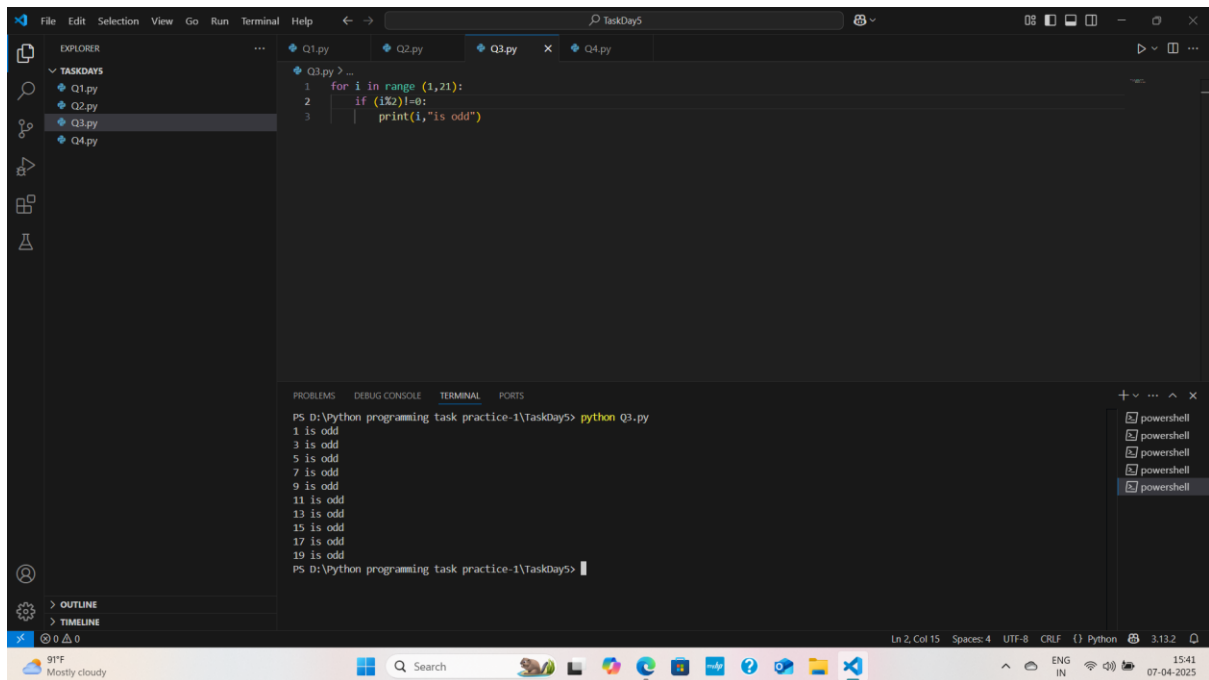


The screenshot shows the Visual Studio Code interface with two files, `Q1.py` and `Q2.py`, open. The code in `Q2.py` is a loop that prints even numbers from 2 to 20, along with the text "is even". The terminal at the bottom shows the command `python Q2.py` being executed, resulting in the output: "2 is even", "4 is even", "6 is even", "8 is even", "10 is even", "12 is even", "14 is even", "16 is even", "18 is even", and "20 is even". The Explorer sidebar on the left shows the file structure with `Q1.py` and `Q2.py` under a folder named `TASKDAYS`. The status bar at the bottom indicates the file is at line 3, column 27, with 4 spaces, using UTF-8 encoding and CRLF line endings.

```
Q2.py
1 for i in range(1,21):
2     if (i%2)==0:
3         print(i,"is even")
```

```
PS D:\Python programming task practice-1\TaskDay5> python Q2.py
2 is even
4 is even
6 is even
8 is even
10 is even
12 is even
14 is even
16 is even
18 is even
20 is even
PS D:\Python programming task practice-1\TaskDay5>
```

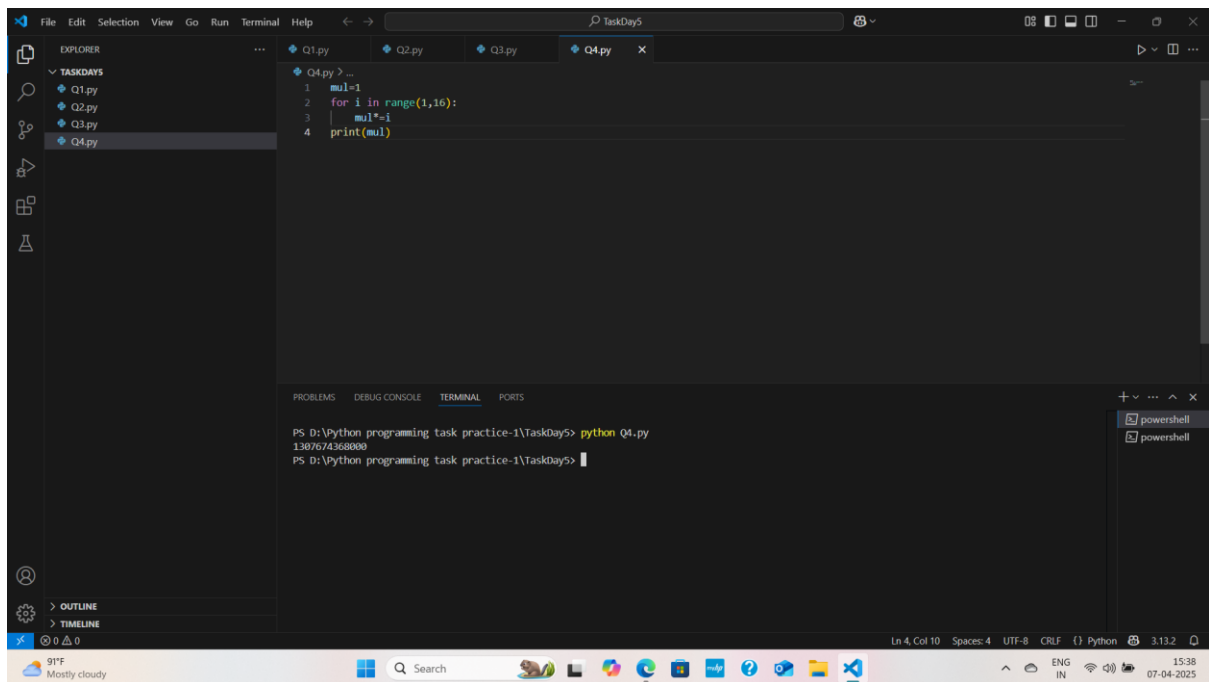
Q3.



```
Q3.py > ...
1 for i in range(1,21):
2     if (i%2)!=0:
3         print(i,"is odd")
```

```
PS D:\Python programming task practice-1\TaskDay5> python Q3.py
1 is odd
3 is odd
5 is odd
7 is odd
9 is odd
11 is odd
13 is odd
15 is odd
17 is odd
19 is odd
PS D:\Python programming task practice-1\TaskDay5>
```

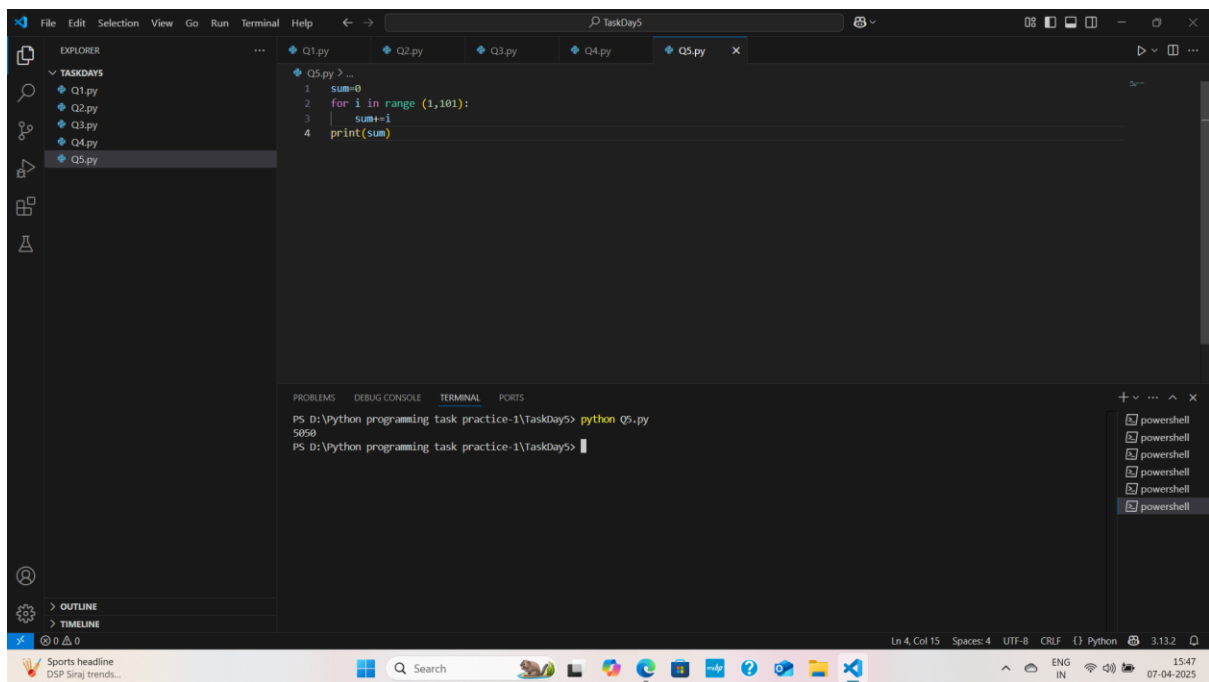
Q4.



```
Q4.py > ...
1 mul=1
2 for i in range(1,16):
3     mul*=i
4     print(mul)
```

```
PS D:\Python programming task practice-1\TaskDay5> python Q4.py
1387674368000
PS D:\Python programming task practice-1\TaskDay5>
```

Q5.



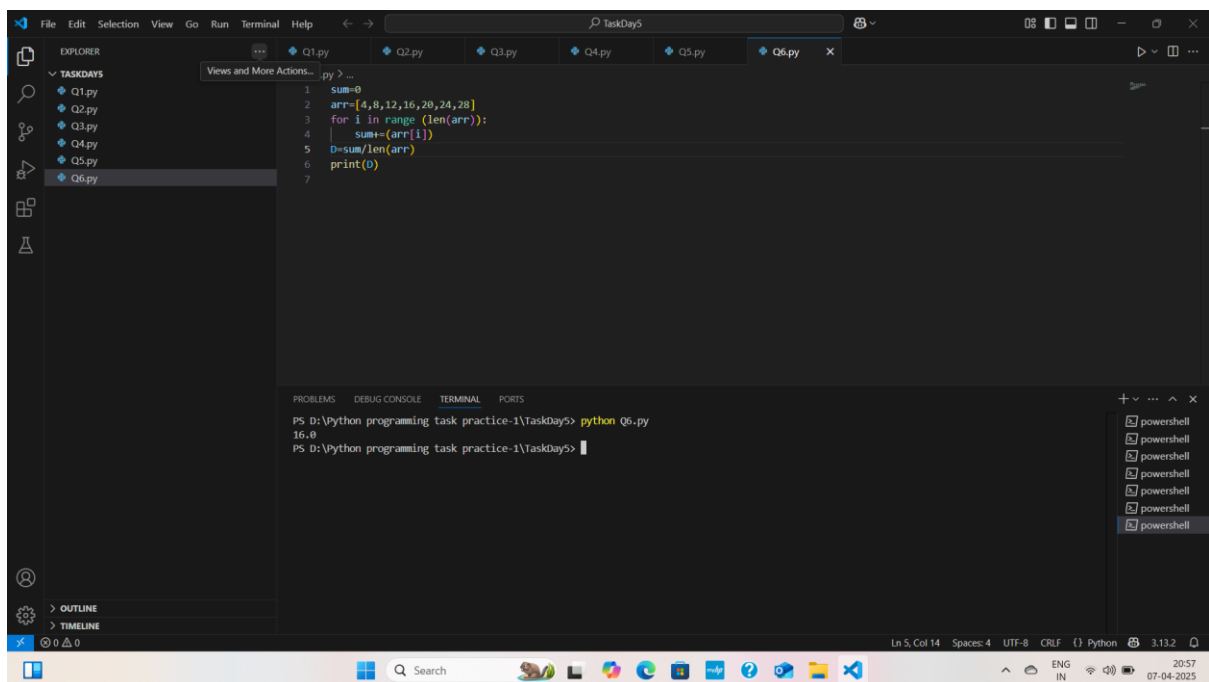
The screenshot shows the Visual Studio Code editor with a file explorer on the left displaying a folder named 'TASKDAYS' containing files Q1.py through Q5.py. The main editor window shows the code for Q5.py:

```
Q5.py > ...
1 sum=0
2 for i in range(1,101):
3     sum+=i
4 print(sum)
```

The terminal at the bottom shows the command `python Q5.py` being executed, resulting in the output `5050`.

```
PS D:\Python programming task practice-1\TaskDay5> python Q5.py
5050
PS D:\Python programming task practice-1\TaskDay5>
```

Q6.



The screenshot shows the Visual Studio Code editor with a file explorer on the left displaying a folder named 'TASKDAYS' containing files Q1.py through Q6.py. The main editor window shows the code for Q6.py:

```
Q6.py > ...
1 sum=0
2 arr=[4,8,12,16,20,24,28]
3 for i in range(len(arr)):
4     sum+=(arr[i])
5 D=sum/len(arr)
6 print(D)
7
```

The terminal at the bottom shows the command `python Q6.py` being executed, resulting in the output `16.0`.

```
PS D:\Python programming task practice-1\TaskDay5> python Q6.py
16.0
PS D:\Python programming task practice-1\TaskDay5>
```

Q7.

```
Q7.py > ...
1 # num=7
2 # for i in range(1,8):
3 #     print("$"+i)
4
5 num=4
6 for i in range(1,4):
7     print("###")
8
9
```

```
PS D:\Python programming task practice-1\TaskDay5> python Q7.py
1
2
3
4
5
6
1
2
3
PS D:\Python programming task practice-1\TaskDay5> python Q7.py
###
###
###
PS D:\Python programming task practice-1\TaskDay5>
```

Q8.

```
Q8.py > ...
1 for i in range(1,6):
2     print(i)
```

```
PS D:\Python programming task practice-1\TaskDay5> python Q8.py
1
2
3
4
5
PS D:\Python programming task practice-1\TaskDay5>
```

Q9.

The screenshot shows the Visual Studio Code editor with a file explorer on the left containing a folder named 'TASKDAYS' with files Q1.py through Q9.py. The main editor window displays 'Q9.py' with the following code:

```
Q9.py > ...
1 for i in range(1,11):
2     print(i)
```

The bottom panel shows the 'TERMINAL' tab with the command 'python Q9.py' executed in a PowerShell window. The output is a list of numbers from 1 to 10, one per line.

```
PS D:\Python programming task practice-1\TaskDay5> python Q9.py
1
2
3
4
5
6
7
8
9
10
PS D:\Python programming task practice-1\TaskDay5>
```

The status bar at the bottom indicates the file is at Line 2, Column 12, with 4 spaces, UTF-8 encoding, CRLF line endings, and Python syntax. The system tray shows 31°C and the date 08-04-2025.

Q10.

The screenshot shows the Visual Studio Code editor with the file explorer on the left. The main editor window displays 'Q10.py' with the following code:

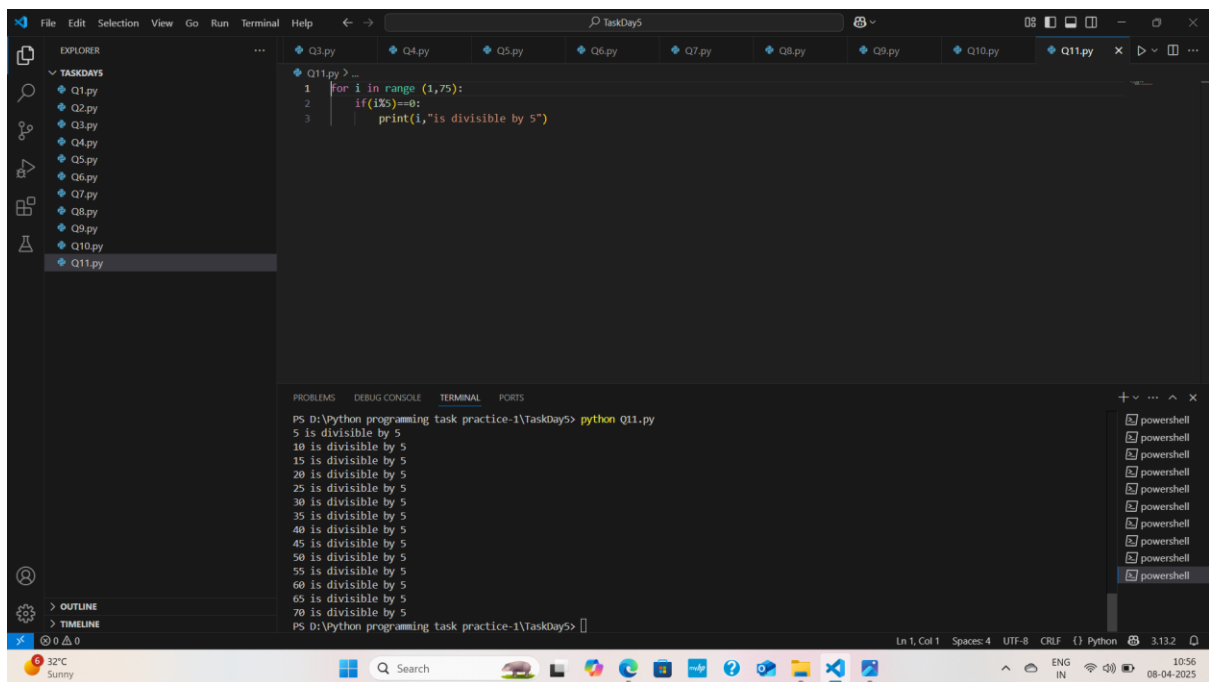
```
Q10.py > ...
1 value=[10,20,30,40,10]
2 if value[0]==value[4]:
3     print(True)
4 else:
5     print(False)
6
```

The bottom panel shows the 'TERMINAL' tab with the command 'python Q10.py' executed in a PowerShell window. The output is 'True'.

```
PS D:\Python programming task practice-1\TaskDay5> python Q10.py
True
PS D:\Python programming task practice-1\TaskDay5>
```

The status bar at the bottom indicates the file is at Line 2, Column 14, with 4 spaces, UTF-8 encoding, CRLF line endings, and Python syntax. The system tray shows 32°C and the date 08-04-2025.

Q11.



```
File Edit Selection View Go Run Terminal Help TaskDay5
```

EXPLORER

- TASKDAYS
  - Q1.py
  - Q2.py
  - Q3.py
  - Q4.py
  - Q5.py
  - Q6.py
  - Q7.py
  - Q8.py
  - Q9.py
  - Q10.py
  - Q11.py

```
Q11.py > ...
1 for i in range(1,75):
2     if (i%5)==0:
3         print(i,"is divisible by 5")
```

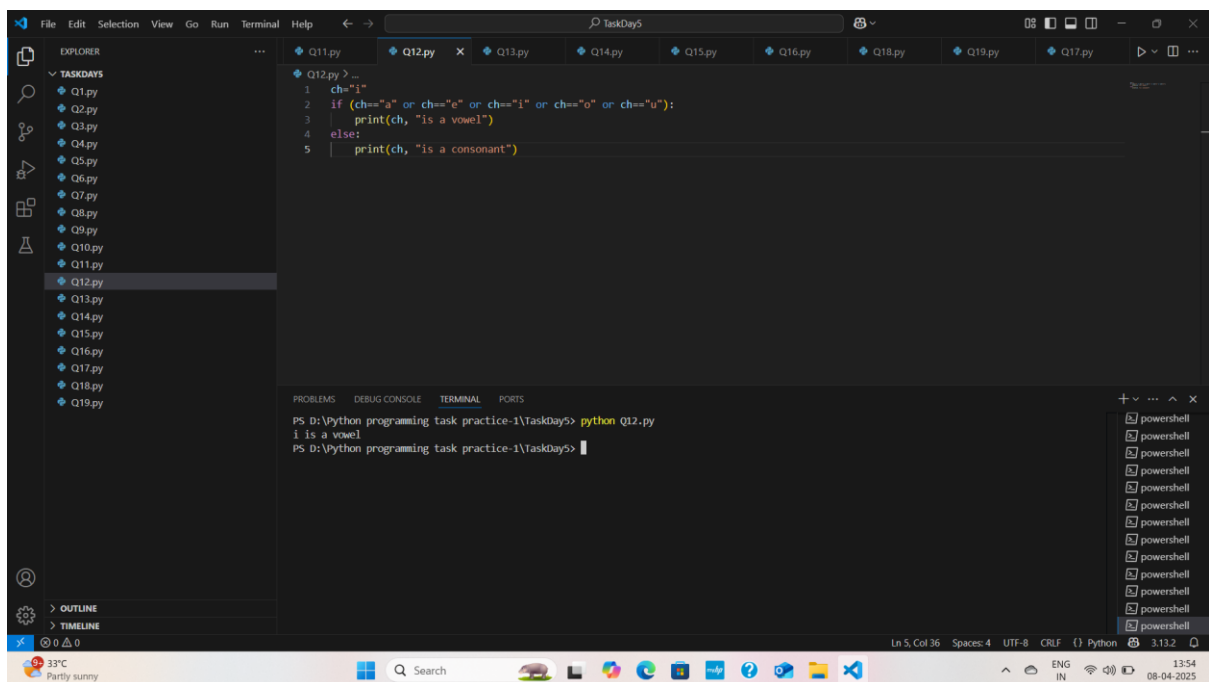
PROBLEMS DEBUG CONSOLE TERMINAL PORTS

```
PS D:\Python programming task practice-1\TaskDay5> python Q11.py
5 is divisible by 5
10 is divisible by 5
15 is divisible by 5
20 is divisible by 5
25 is divisible by 5
30 is divisible by 5
35 is divisible by 5
40 is divisible by 5
45 is divisible by 5
50 is divisible by 5
55 is divisible by 5
60 is divisible by 5
65 is divisible by 5
70 is divisible by 5
PS D:\Python programming task practice-1\TaskDay5>
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python 3.11.2

32°C Sunny

Q12.



```
File Edit Selection View Go Run Terminal Help TaskDay5
```

EXPLORER

- TASKDAYS
  - Q1.py
  - Q2.py
  - Q3.py
  - Q4.py
  - Q5.py
  - Q6.py
  - Q7.py
  - Q8.py
  - Q9.py
  - Q10.py
  - Q11.py
  - Q12.py
  - Q13.py
  - Q14.py
  - Q15.py
  - Q16.py
  - Q17.py
  - Q18.py
  - Q19.py

```
Q12.py > ...
1 ch="i"
2 if (ch=="a" or ch=="e" or ch=="i" or ch=="o" or ch=="u"):
3     print(ch, "is a vowel")
4 else:
5     print(ch, "is a consonant")
```

PROBLEMS DEBUG CONSOLE TERMINAL PORTS

```
PS D:\Python programming task practice-1\TaskDay5> python Q12.py
i is a vowel
PS D:\Python programming task practice-1\TaskDay5>
```

Ln 5, Col 36 Spaces: 4 UTF-8 CRLF Python 3.11.2

33°C Partly sunny

Q13.

The screenshot shows the Visual Studio Code editor with a file explorer on the left containing a folder named 'TASKDAYS' with files Q1.py through Q13.py. The main editor window displays the code for Q13.py:

```
1 for i in range(10,55):
2     if (i%2)==0:
3         print(i,"even")
4     else:
5         print(i,"odd")
```

The bottom panel shows the 'TERMINAL' tab with the command `python Q13.py` executed. The output is a list of even and odd numbers from 10 to 24:

```
PS D:\Python programming task practice-1\TaskDay5> python Q13.py
10 even
11 odd
12 even
13 odd
14 even
15 odd
16 even
17 odd
18 even
19 odd
20 even
21 odd
22 even
23 odd
24 even
```

The status bar at the bottom indicates the file is at line 5, column 21, with 4 spaces, UTF-8 encoding, and CRLF line endings. The system tray shows a temperature of 32°C and the date 08-04-2025.

Q14.

The screenshot shows the Visual Studio Code editor with a file explorer on the left containing a folder named 'TASKDAYS' with files Q1.py through Q14.py. The main editor window displays the code for Q14.py:

```
1 for i in range(1,25):
2     if (i%5)!=0:
3         print(i,"are not divisible by 5")
```

The bottom panel shows the 'TERMINAL' tab with the command `python Q14.py` executed. The output is a list of numbers from 1 to 18, all of which are not divisible by 5:

```
PS D:\Python programming task practice-1\TaskDay5> python Q14.py
1 are not divisible by 5
2 are not divisible by 5
3 are not divisible by 5
4 are not divisible by 5
5 are not divisible by 5
6 are not divisible by 5
7 are not divisible by 5
8 are not divisible by 5
9 are not divisible by 5
10 are not divisible by 5
11 are not divisible by 5
12 are not divisible by 5
13 are not divisible by 5
14 are not divisible by 5
15 are not divisible by 5
16 are not divisible by 5
17 are not divisible by 5
18 are not divisible by 5
```

The status bar at the bottom indicates the file is at line 3, column 40, with 4 spaces, UTF-8 encoding, and CRLF line endings. The system tray shows a temperature of 34°C and the date 08-04-2025.

Q15.

```
File Edit Selection View Go Run Terminal Help TaskDay5
```

EXPLORER

- TASKDAYS
  - Q1.py
  - Q2.py
  - Q3.py
  - Q4.py
  - Q5.py
  - Q6.py
  - Q7.py
  - Q8.py
  - Q9.py
  - Q10.py
  - Q11.py
  - Q12.py
  - Q13.py
  - Q14.py
  - Q15.py
  - Q16.py
  - Q17.py
  - Q18.py
  - Q19.py

Q15.py

```
1 mul=1
2 arr=[2,4,7,5,8,9]
3 for i in range(len(arr)):
4     mul*=len(arr)
5     print(mul)
```

PROBLEMS DEBUG CONSOLE TERMINAL PORTS

```
PS D:\Python programming task practice-1\TaskDay5> python q15.py
6
36
216
1296
7776
46656
PS D:\Python programming task practice-1\TaskDay5>
```

Ln 3, Col 26 Spaces: 4 UTF-8 CRLF Python 3.13.2

Q16.

```
File Edit Selection View Go Run Terminal Help TaskDay5
```

EXPLORER

- TASKDAYS
  - Q1.py
  - Q2.py
  - Q3.py
  - Q4.py
  - Q5.py
  - Q6.py
  - Q7.py
  - Q8.py
  - Q9.py
  - Q10.py
  - Q11.py
  - Q12.py
  - Q13.py
  - Q14.py
  - Q15.py
  - Q16.py
  - Q17.py
  - Q18.py
  - Q19.py

Q16.py

```
1 A=40
2 B=50
3 product=A*B
4 if product>500:
5     sum=A+B
6     print('sum value', sum)
7 else:
8     print('product value', product)
```

PROBLEMS DEBUG CONSOLE TERMINAL PORTS

```
PS D:\Python programming task practice-1\TaskDay5> python q16.py
sum value: 90
PS D:\Python programming task practice-1\TaskDay5>
```

Ln 8, Col 19 Spaces: 4 UTF-8 CRLF Python 3.13.2



Q17.

The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a folder named 'TASKDAYS' with files Q1.py through Q19.py. The main editor displays the code for Q17.py:

```
1 num1=40
2 num2=50
3 if num1>num2:
4     print("num1 is not a greater")
5 elif num2>num1:
6     print("num1 is greater")
7 else:
8     print("both are equal")
```

The bottom panel shows the terminal output after running the script:

```
PS D:\Python programming task practice-1\TaskDay5> python Q17.py
num1 is greater
PS D:\Python programming task practice-1\TaskDay5>
```

The status bar at the bottom indicates the file is at line 8, column 26, with 4 spaces, using UTF-8 encoding and CRLF line endings.

Q18.

The screenshot shows the Visual Studio Code interface with the file explorer on the left. The main editor displays the code for Q18.py:

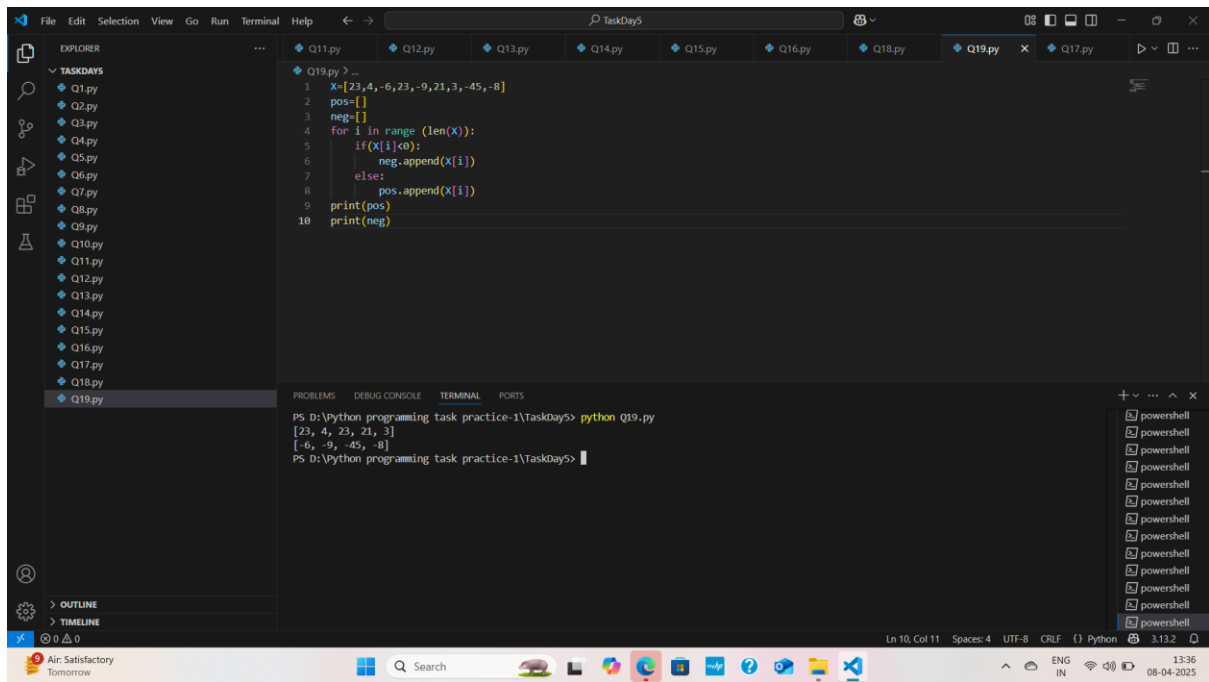
```
1 num1=30
2 num2=40
3 num3=50
4 if num1>num2 and num1>num3:
5     print("num1 greater than num2 and num3 ")
6 elif num2>num1 and num2>num3:
7     print("num2 lesser than num3 and num1")
8 elif num3>num1 and num3>num2:
9     print("num3 is greater than num1 and num2")
10 else:
11     print("all are equal")
```

The bottom panel shows the terminal output after running the script:

```
PS D:\Python programming task practice-1\TaskDay5> python Q18.py
num3 is greater than num1 and num2
PS D:\Python programming task practice-1\TaskDay5>
```

The status bar at the bottom indicates the file is at line 9, column 46, with 4 spaces, using UTF-8 encoding and CRLF line endings.

Q19.



The screenshot displays the Visual Studio Code interface with a Python file named `Q19.py` open. The file contains a script that processes a list of numbers, separating positive and negative values. The terminal shows the execution of `python Q19.py`, which outputs the positive numbers `[23, 4, 23, 21, 3]` and the negative numbers `[-6, -9, -45, -8]`.

```
Q19.py > ...
1  x=[23,4,-6,23,-9,21,3,-45,-8]
2  pos=[]
3  neg=[]
4  for i in range (len(x)):
5      if(x[i]<0):
6          neg.append(x[i])
7      else:
8          pos.append(x[i])
9  print(pos)
10 print(neg)
```

Terminal Output:

```
PS D:\Python programming task practice-1\TaskDay5> python Q19.py
[23, 4, 23, 21, 3]
[-6, -9, -45, -8]
PS D:\Python programming task practice-1\TaskDay5> 
```