

.practice.py > ...

```
1  # Question 1
2  a=int(input("enter the no. "))
3  print(a , "in binary is " , bin(a))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python Debug Console + - [] [X] ^ X

Windows PowerShell

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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```
PS C:\Users\admin\python assignments> & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms-python.python-2022.6.1\pythonFiles\lib\python\debugpy\launcher' '50230' '--' 'c:\Users\admin\python assignments\.practice.py'
```

enter the no.40

40 in binary is 0b101000

```
PS C:\Users\admin\python assignments> █
```

1. **QUESTION**
 2. **ANSWER**
 3. **QUESTION**
 4. **ANSWER**
 5. **QUESTION**
 6. **ANSWER**
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 8. **ANSWER**
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 93. **QUESTION**
 94. **ANSWER**
 95. **QUESTION**
 96. **ANSWER**
 97. **QUESTION**
 98. **ANSWER**
 99. **QUESTION**
 100. **ANSWER**

```
1 # Question 2
2
3 # Function to add two numbers
4 def add(num1, num2):
5     return num1 + num2
6
7 # Function to subtract two numbers
8 def subtract(num1, num2):
9     return num1 - num2
10
11 # Function to multiply two numbers
12 def multiply(num1, num2):
13     return num1 * num2
14
15 # Function to divide two numbers
16 def divide(num1, num2):
17     return num1 / num2
18
19 print("Please select operation -\n" \
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python Debug Console + [Icons]

Please select operation -

1. Add
2. Subtract
3. Multiply
4. Divide

```
Select operations form 1, 2, 3, 4 :1
```

Enter first number: 34

Enter second number: 45

$$34 + 45 = 79$$

```
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```

.practice.py > ...

```
1  # Question 3
2  import math
3  #A)
4  a = (3+4)*(5)
5  print("(3+4)*(5)", "=", a)
6
7  #B)
8  a=int(input("Enter the value of 'n' to calculate the value of '(n(n-1))/2': "))
9  print("For 'n':", a, ", the value of '(n(n-1))/2' is: ", end="")
10 print((a*(a-1))/2)
11
12 #C)
13 r=int(input("Enter the value of 'r' to calculate 4pi(r^2): "))
14 b=4*(math.pi)*(r**2)
15 print("For 'r':", r, ", the value of 4pi(r^2) is: ", end="")
16 print(f"{b:.4f}")
17
18 #D)
19 A_1=int(input("Value of a in degrees: "))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python Debug Console + ▾ □ 🗑 ⤴ ✕

```
For 'r': 2 , the value of 4pi(r^2) is: 50.2655
Value of a in degrees: 30
Value of b in degrees: 45
Value of 'r': 7
The value of expression '(r*(cos(a)^2) + r*(sin(b)^2))^1/2': 3.952765570202987
To find the slope between two points.
Enter the point x-axis of point 1: 1
Enter the point y-axis of point 1: 8
Enter the point x-axis of point 2: 9
Enter the point y-axis of point 2: 6
The slope between 2 points is: -0.2500
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```

.practice.py > ...

```
1  # Question 4
2  for a in range(5):
3      print(a)
4
5  for b in range(3,10):
6      print(b)
7
8  for c in range(4,13,3):
9      print(c)
10
11 for d in range(15,5,-2):
12     print(d)
13
14 for e in range(5,3,-1):
15     print(e)
16
17
18
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python Debug Console + - [] [X] ^ X

```
9
4
7
10
15
13
11
9
7
5
4
```

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```
1  # Question 5
2  H_w = 1.00794
3  C_w = 12.0107
4  O_w = 15.9994
5
6  H = int(input("Enter number of hydrogen atoms "))
7  C = int(input("Enter number of carbon atoms "))
8  O = int(input("Enter number of oxygen atoms "))
9
10 weight = H*H_w + C*C_w + O*O_w
11
12 print("The molecular weight of the compound is", weight)
13
14
15
16
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python Debug Console + ▾ □ 🗑 ⤴ ✕

Windows PowerShell

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-python.python-2022.6.1\pythonFiles\lib\python\debugpy\launcher' '50351' '--' 'c:\Users\admin\python assignments\.practice.py'
```

```
Enter number of hydrogen atoms 45
```

```
Enter number of carbon atoms 67
```

```
Enter number of oxygen atoms 78
```

```
The molecular weight of the compound is 2098.0274
```

```
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```