

A-7.py

A-13.py

A-14.py

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A-11.py

{ } launch.json

A

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```
27     print( 31 days )
28
29 # 2. Write a menu driven program to perform following operations - Addition, Subtraction, Multiplication, Division
30 a = int(input("enter the num1"))
31 b = int(input("enter the num2"))
32 op = input(("which operator would you like to per for: +, -, /, * :"))
33 match op :
34     case '+' :
35         | print("the number of addition:", a+b)
36     case '-' :
37         | print("the subtraction of a number is :", a-b)
38     case '*' :
39         | print("the multiplication of number is :", a*b)
40     case '/' :
41         | print("the division of a number is :", a/b)
42
43 ''' 3. Write a menu driven program with the following options:
44 a. Check whether a given set of three numbers are lengths of an isosceles
45 triangle or not
46 b. Check whether a given set of three numbers are lengths of sides of a right
47 angled triangle or not
48 c. Check whether a given set of three numbers are equilateral triangle or not
49 d. Exit. '''
50 triangeltype = input("enter the type of triangle you want e.g (iso, right, equ):")
51 print("enter the three side of a triangle:")
52 a = int(input("enter first side"))
53 b = int(input("enter the second side:"))
54 c = int(input("enter the third side:"))
55
56 match triangeltype :
57     case 'iso' :
58         | if a == b != c or a != b == c and a != b or a == c:
59             | print('it is an iso')
60         | else :
61             | print('it is not an iso')
62     case 'right' :
63         | if c**2 == a**2 + b**2 :
64             | print("it is an right angle tringle")
```

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41     print("the division of a number is :",a/b)
42
43     ''' 3. Write a menu driven program with the following options:
44     a. Check whether a given set of three numbers are lengths of an isosceles
45     triangle or not
46     b. Check whether a given set of three numbers are lengths of sides of a right
47     angled triangle or not
48     c. Check whether a given set of three numbers are equilateral triangle or not
49     d. Exit. '''
50     trianglertype = input("enter the type of triangle you want e.g (iso,right,equ):")
51     print("enter the three side of a triangle:")
52     a = int(input("enter first side"))
53     b = int(input("enter the second side:"))
54     c = int(input("enter the third side:"))
55
56     match trianglertype :
57     case 'iso' :
58         if a == b != c or a != b == c and a != b or a == c:
59             print('it is an iso')
60         else :
61             print('it is not an iso')
62     case 'right' :
63         if c**2 == a**2 + b**2 :
64             print("it is an right angle triangle")
65         else :
66             print("it is not an right angle triangle")
67     case 'equ' :
68         if a == b == c :
69             print('it is an equ')
70         else :
71             print('it is not an equ')
72
73     '''4. Write a program which takes user's age and display the category of person. Age
74     below 10 years- Kid, Age below 20 - Teen, Age below 40 - young, Age below 60 -
75     ...'''
```


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```
71     print('it is not an equ')
72
73     '''4. Write a program which takes user's age and display the category of person. Age
74     below 10 years- Kid, Age below 20 - Teen, Age below 40 - young, Age below 60 -
75     Experienced, Age above or equal 60 - Senior Citizen.'''
76     age = int(input("enter your age:"))
77     match age :
78         case _ if age <= 10 :
79             print("you are a kid")
80         case _ if 10 < age <= 20 :
81             print("you are a teen")
82         case _ if 20 < age <= 40 :
83             print("you are a young")
84         case _ if 40 < age <= 60 :
85             print("you are a experinced")
86         case _ if age >=60 :
87             print("you are a senior")
88
89     '''5. Write a program which takes a number from user. Print Saurabh Shukla if the number
90     is even, print Prateek Jain if the number is negative odd number and print Aditya
91     Choudhary if number is positive odd number.'''
92     a = int(input("enter the number"))
93     match a :
94         case _ if a%2 == 0 :
95             print("it is even so : prateek jain")
96         case _ if a%2 != 0 :
97             print("it is positive odd so : Aditya Chaoudhary")
98
99     '''6. Write a python program to check whether a given string is a multiword string or single
100     word string using match case statement'''
101     a = "niket play football"
102     match a:
103         case _ if 'niket' == a:
104             print("it has a single word")
105         case _ if 'niket play football' == a:
106             print("it has multi word")
107
```

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```
107
108 '''7. Write a python program to check whether a given number is positive, negative or
109 zero using match case statement'''
110 a = int(input("enter num1"))
111 b = int(input("enter num2"))
112 c = int(input("enter num3"))
113 match a,b,c :
114     case _ if a > 0 :
115         print("it is positive")
116     case _ if a < 0 :
117         print("it is negative")
118     case _ if a==0 :
119         print("it is zero")
120
121 '''8. Write a python script to check whether two given strings are identical, first string
122 comes before the second in dictionary order or first string comes after the second
123 string in dictionary order using match case statement'''
124 a = input("enter a name ")
125 b = input("enter b name ")
126 match a,b:
127     case _ if a>b :
128         print("a come first")
129     case _ if a<b :
130         print("b come first")
131     case _ if a==b :
132         print("both are same")
133
134 '''9. Write a python script to check whether a given year is
135 a. Non century leap year
136 b. Century leap year
137 c. Non century non leap year
138 d. Century non leap year'''
139 a = int(input("enter the year"))
140 checks = input("type 'all':")
141 match checks :
142     case 'all' :
143         if a%100 == 0 and a%400 == 0 :
```

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```
143 if a%100 == 0 and a%400 == 0 :
144     print("it is century leap year")
145 elif a%100 == 0 and a%400 != 0 :
146     print("it is century non leap year")
147 elif a%100 != 0 and a%400 != 0 :
148     print("it is non century and non leap year")
149 else :
150     print("non century leap year")
151
152 '''10. Write a program to display day name on the basis of user's liking of a colour. Ask
153 user for his favorite colour. User can answer in a sentence like "I like red colour".
154 Assuming all colour name entered by user is in lowercase. Use match case to display
155 day name associated with the colour.
156 a. Yellow - Monday
157 b. Blue - Tuesday
158 c. Orange - Wednesday
159 d. White - Thursday
160 e. Black - Friday
161 f. Red - Saturday
162 g. All other colours - Sunday'''
163 print("type which color you like it will display as days of color e.g : red,yellow,blue,orange,white,black,all")
164 a = input("which color you like : ")
165 match a :
166     case 'red' :
167         print("Red-saturday")
168     case 'yellow' :
169         print("Yellow - Monday")
170     case 'orange' :
171         print("Orange - Wednesday")
172     case 'blue' :
173         print(" Blue - Tuesday")
174     case 'black' :
175         print(" Black - Friday")
176     case 'white' :
177         print("White - Thursday")
178     case 'all' :
179         print('All other colours - Sunday')
```


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```
1  # 1. Write a python script to display the number of days in a given month number.
2  a = int(input("enter the month number"))
3  match a :
4      case 1 :
5          print("31 days")
6      case 2 :
7          print("28/27 days")
8      case 3 :
9          print("31 days")
10     case 4 :
11         print("30 days")
12     case 5 :
13         print("31 days")
14     case 6 :
15         print("30 days")
16     case 7 :
17         print("31 days")
18     case 8 :
19         print("31 days")
20     case 9 :
21         print("30 days")
22     case 10 :
23         print("31 days")
24     case 11 :
25         print("30 days")
26     case 12 :
27         print("31 days")
28
29  # 2. Write a menu driven program to perform following operations - Addition, Subtraction, Multiplication, Division
30  a = int(input("enter the num1"))
31  b = int(input("enter the num2"))
32  op = input(("which operator would you like to per for: +, -, /, * :"))
33  match op :
34      case '+' :
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