

```
1 if...else
2
3
4 1. Write a Python program to calculate the discount percentage based on the purchase
   amount.
5 If the purchase amount is greater than or equal to 1000, apply a 10% discount. If the
   amount
6 is less than 1000, apply a 5% discount. Print the final discount amount.
7 pur=float(input('Enter the amount='))
8 if(pur>=1000):
9     print('discount amount=',pur*(10/100))
10 else:
11     print('discount amount=',pur*(5/100))
12
13
14
15 2. Given the age and height of a person, write a Python program to determine if
16 the person is eligible for a roller coaster ride. To be eligible, the person
17 must be at least 10 years old and have a height of 130cm or more.
18 age=int(input('Enter the Age= '))
19 h=float(input('Enter the height= '))
20 if(age>=10 and h>130):
21     print('Your Eligible ')
22 else:
23     print('Not Eligible')
24
25 if...elif
26
27
28 3. Accept the mark of English, Maths, Science and social studies display the stream
   allotted
29 >80 -->science
30 eng>80 and mat,sce above 50 -->commerce
31 eng,soci stu>80 Humanities
32
33
34 eng=int(input('English='))
35 mat=int(input('Maths='))
36 sci=int(input('Science='))
37 ss=int(input('Social Studies='))
38 if(eng>80 and mat>80 and sci>80 and ss>80):
39     print('Science Stream')
40 elif(eng>80 and mat>50 and sci>50):
41     print('Commerce Stream')
42 elif(eng>80 and ss>80):
43     print('Humanities')
44 else:
45     print('Not Eligible')
46
47
48
49 4. user i/p-->no of days
50 calculate charge of library
51 till 5 days -->2per day
52 6 to 10 days -->3per day
53 11 to 15 days -->4per day
54 After 15 days -->5per day
55
56 day=int(input('Enter the no of Days='))
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57 if(day<=5):
58     print('Library Charge of %d days=%day,(day*2),'Rs')
59 elif(day>5 and day<=10):
60     print('Library Charge of %d days=%day,(day*3),'Rs')
61 elif(day>10 and day<=15):
62     print('Library Charge of %d days=%day,(day*4),'Rs')
63 elif(day>15):
64     print('Library Charge of %d days=%day,(day*5),'Rs')
65
66
67 Nestedif Questions
68
69 5. Write a programme that takes a user's age as input.
70 If the age is greater than or equal to 18, ask the user if they have a valid id.
71 If they have a valid id, print you are allowed to enter.
72 If they don't have a valid id print sorry you need a valid id to enter.
73 If the age is less than 18, print you are not allowed to enter.
74
75 age=int(input('Enter your age='))
76 if(age>=18):
77     id=input('Do you have valid id? YES/NO:')
78     if(id=='yes'):
79         print('You are allowed to enter')
80     else:
81         print('Sorry! You need a valid id to enter')
82 else:
83     print('You are not allowed to enter')
84
85
86
87 6. Write a programme that takes a number as input and checks
88 if it is positive, negative, or zero. If it is positive,
89 ask the user if they want to square the number. If they choose to square,
90 print its square. If it is negative, ask the user if they want to find its absolute
91 value.
92 If they choose to find the absolute, print its absolute value. If the value is zero,
93 Print 'the value is zero'.
94
95 num=int(input('Enter the number='))
96 if(num==0):
97     print('The value is zero')
98 elif(num>0):
99     x=input('If you want square the number:')
100     if(x=='yes'):
101         print('%d is positive square value of %d= %d'%(num,num,(num**2)))
102 else:
103     y=input('If you want to find absolute value:')
104     if(y=='yes'):
105         print('%d absolute value= %d'%(num,(num*(-1))))
```