Dept: Information Technology

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1. A school has the following rules for grading system.

a. Below 25 - F

b. 26 to 45 - E

C. 46 to 50 - D

d. 51 to 60 - C

e. 61 to 80 - B

to Above 80 - A

Ask user to enter marks and point the corresponding grade.

Source Code:

marks = int (input ("Enter the marks:"))

if marks < 25 : print ("Grade = F")

elif 26 <= marks <= 45;

print ("Grade = E") *

ellf 46 <= marks <= 50:

print ("Grade = D")

elif 51 <= marks <= 60:

print ("Grade = C")

elif 61 <= marks <= 80;

print (" Grade = B")

elif marks > 80;

Print ("Grade = A")

Output: Enter the marks: 66

Grade = B

2. Write a program in Python that will accept 3 angles of the triangle and check that triangle is possible, if possible then check that is it "Acute angled triangle", "Right angled triangle" or "Obtuse". Also print a "Triangle is not possible if the Sum of the angles are not 180 degree.

Source Code:

a = float (input ("Enter the first angle"))

b = float (input ("Enter the second angle"))

C= float (input ("Enter the third angle"))

if (a+b+c) == 180:

print ("Triangle is possible") &

if a < 90 and b < 90 and e < 90; print ("Acute angled Triangle")

elif a == 90 or b == 90 or c == 90: print ("Right angled Triangle")

else: print ("Obtuse angled Triangle")

else:
print ("Triangle not Possible")

Output: Enter the first angle: 30
Enter the second angle: 90
Enter the third angle: 60
Triangle is possible
Right angled Triangle

3.	A	company	divided	Salary	in	4	slabs	,
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Grade	Basic (Rs.per month)	D.A. (% of basic)	H.R.A. (1. of basic)
1.	10,000 or more	40%	30%
2.	5,000 - 10,000	40%	25%
	25,000 but 72,000	30%	20%
3.		30%	15%
4.	2,000 or less		

If the Salary which is the total of Basic, D.A., and H.R.A., is above Rs 50,000 per month then Income Tax at the rate of 30% of the annual salary exceeding 50,000 the rate of 30% of the annual salary exceeding 50,000 is deducted on monthly basis at source. Taking name of the employees and the Basic (monthly) pay as inputs, a pay slip, which contains Name, Basic monthly pay, DA, HRA, Monthly Income Tax and Net Monthly Salary, Write a python program to perform this job.

Source Code:

name = input (" Enter the Name of Employee")
basic = float (input (" Enter the Basic pay: "))

da = 0

Wa= 0

incometax = 0

if basic >= 10000;

da = basic * 0.4

hraz basic * 0.3

ely 5000 <= basic > 10000:

da = basic x 0.4

Wra = baic + 0.25

elif 2000 < basic > 5000;

da = basic * 0.3

hra = basic * 0.2

elif basic <= 2000;

da = basic * 0.3

hear basic * 0.15

net = basic + da + hra

if net > 50000!

incornetax = net * 0.3

net = net-incometax

print ("Inlt -: PAY SLIP: -")

print ("Name of Employee: ", name)

print ("Basic Monthy Pay:", basic)

print ("D.A.:", da)

print (" H.R. A.: ", hra)

if & incometax >0%

print ("Monthy Inome Tax:", incometax)

print (" Net Monthy Salary: ", net)

Output: Enter the mame of the Employee: Pranay Grupta

Enter the Basic pay: 30000

- PAY SLIP: -

Name of Employee: Prancy Grupta

Basic Monthy Pay: 30000.0

D.A. : 12000.0

HRA: 9000:0

Monthy Incometax: 15300.0

Net monthy Salary: 35700.0