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import math
print("Welcome to the Grade/Percento Calculator \n")
print("Grade Points:\nO=10\nS=9\nA=8\nB=7\nC=6\nD=4 \n")

print(" // NOTE:for FAIL(F) Grade & Credit Point=0 //\n")

print(" // Enter other subjects Grades as 'O' if u have only 4 subjects //\n")
print("Choose Year")
year=int(input(""))
if (year==1):
    print("no of.Subjects =6 :\n")
    nS=6
    print("Enter Grade Point sub1:")
    s1=int(input(""))
    print("Enter Grade Point sub2:")
    s2=int(input(""))
    print("Enter Grade Point sub3:")
    s3=int(input(""))
    print("Enter Grade Point sub4:")
    s4=int(input(""))
    print("Enter Grade Point sub5:")
    s5=int(input(""))
    print("Enter Grade Point sub6:")
    s6=int(input(""))
    print(" No of.Labs=3 \n")
    nL=3
    print("Enter Lab Grade Point sLab1:")
    sL1=int(input(""))
    print("Enter Lab Grade Point sLab2:")
    sL2=int(input(""))
    print("Enter Lab Grade Point sLab3:")
    sL3=int(input(""))
    print("Sub Credit Point =3 ")
    print("Lab Credit Point =2 ")
    cS=3
    cL=2
    Tcg=(s1*cS+s2*cS+s3*cS+s4*cS+s5*cS+s6*cS+sL1*cL+sL2*cL+sL3*cL)
    Tc=(nS*cS+nL*cL)
    print("Total CGPA :\n")
    CGPA=Tcg/Tc
    print(CGPA)

elif (year==2):
    print("no of.Subjects =6 :\n")
    nS=6
    print("Enter Grade Point sub1:")
    s1=int(input(""))
    print("Enter Grade Point sub2:")
    s2=int(input(""))
    print("Enter Grade Point sub3:")
    s3=int(input(""))
    print("Enter Grade Point sub4:")
    s4=int(input(""))
    print("Enter Grade Point sub5:")
    s5=int(input(""))
    print("Enter Grade Point sub6:")
    s6=int(input(""))
    print(" No of.Labs=2 \n")

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nL=2
print("Enter Lab Grade Point sLab1:")
sL1=int(input(""))
print("Enter Lab Grade Point sLab2:")
sL2=int(input(""))

print("Sub Credit Point =3 ")
print("Lab Credit Point =2 ")
cS=3
cL=2
Tcg=(s1*cS+s2*cS+s3*cS+s4*cS+s5*cS+s6*cS+sL1*cL+sL2*cL+sL3*cL)
Tc=(nS*cS+nL*cL)
print("Total CGPA :\n")
CGPA=Tcg/Tc
print(CGPA)

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elif (year==3):
    print("no of.Subjects =5 :\n")
    nS=5
    print("Enter Grade Point sub1:")
    s1=int(input(""))
    print("Enter Grade Point sub2:")
    s2=int(input(""))
    print("Enter Grade Point sub3:")
    s3=int(input(""))
    print("Enter Grade Point sub4:")
    s4=int(input(""))
    print("Enter Grade Point sub5:")
    s5=int(input(""))
    print("Enter Grade Point sub6:")
    s6=int(input(""))
    print(" No of.Labs=3 \n")
    nL=3
    print("Enter Lab Grade Point sLab1:")
    sL1=int(input(""))
    print("Enter Lab Grade Point sLab2:")
    sL2=int(input(""))
    print("Enter Lab Grade Point sLab3:")
    sL3=int(input(""))
    print("Sub Credit Point =3 ")
    print("Lab Credit Point =2 ")
    cS=3
    cL=2
    Tcg=(s1*cS+s2*cS+s3*cS+s4*cS+s5*cS+s6*cS+sL1*cL+sL2*cL+sL3*cL)
    Tc=(nS*cS+nL*cL)
    print("Total CGPA :\n")
    CGPA=Tcg/Tc
    print(CGPA)

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elif (year==4):
    print("no of.Subjects =6 :\n")
    nS=6
    print("Enter Grade Point sub1:")
    s1=int(input(""))
    print("Enter Grade Point sub2:")
    s2=int(input(""))
    print("Enter Grade Point sub3:")
    s3=int(input(""))

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print("Enter Grade Point sub4:")
s4=int(input(""))
print("Enter Grade Point sub5:")
s5=int(input(""))
print("Enter Grade Point sub6:")
s6=int(input(""))
print(" No of.Labs=2 \n")
nL=2
print("Enter Lab Grade Point sLab1:")
sL1=int(input(""))
print("Enter Lab Grade Point sLab2:")
sL2=int(input(""))

print("Sub Credit Point =3 ")
print("Lab Credit Point =2 ")
cS=3
cL=2
Tcg=(s1*cS+s2*cS+s3*cS+s4*cS+s5*cS+s6*cS+sL1*cL+sL2*cL+sL3*cL)
Tc=(nS*cS+nL*cL)
print("Total CGPA :\n")
CGPA=Tcg/Tc
print(CGPA)
else:
print("Please Choose Again")

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