

practical3.ipynb - Colaboratory

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practical3.ipynb

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```
#prog1
a=int(input("enter 1st number: "))
b=int(input("enter 2nd number: "))
if (a>b):
    print("larger number is: ",a)
else:
    print("larger number is : ",b)
```

enter 1st number: 5
enter 2nd number: 6
larger number is: 6

```
[ ] #prog2
a=int(input("enter 1st number: "))
if a>0:
    print("number is positive")
elif a<0:
    print("number is negative")
else:
    print("number is zero:")
```

enter 1st number: 20
number is positive

```
[ ] #prog3
```

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```
[ ] #prog3
a=int(input("enter age: "))
if(a>0 and a<=12):
    print("Child")
elif(a>13 and a<=19):
    print("Teenager")
elif(a>20 and a<=59):
    print("Adult")
elif(a>60):
    print("Senior Citizen")
```

enter age: 21
Adult

```
#prog4
def switch(a):
    if(a==1):
        print("Sunday")
    elif(a==2):
        print("Monday")
    elif(a==3):
        print("Tuesday")
    elif(a==4):
        print("Wednesday")
    elif(a==5):
        print("Thursday")
```

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[] print("wendsday")
elif(a==5):
 print("Thursday")
elif(a==6):
 print("Friday")
elif(a==7):
 print("Saturday")
else:
 print("ERROR")
b=int(input("enter number: "))
switch(b)

enter number: 7
Saturday

#prog5
a=int(input("sub1 mark: "))
b=int(input("sub2 mark: "))
c=int(input("sub3 mark: "))
avg=(int(a+b+c)/3)
if(avg>=90 and avg<=100):
 print("your grade is A")
elif(avg>=80 and avg<=89):
 print("your grade is B")
elif(avg>=70 and avg<=79):
 print("your grade is C")
elif(avg>=60 and avg<=69):

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[] print("your grade is A")
elif(avg>=80 and avg<=89):
 print("your grade is B")
elif(avg>=70 and avg<=79):
 print("your grade is C")
elif(avg>=60 and avg<=69):
 print("your grade is D")

else:
 print("FAILL")

sub1 mark: 65
sub2 mark: 66
sub3 mark: 67
your grade is D

[] #prog6
s=int(input("enter the value of coefficient of x^2: "))
s1=int(input("enter the value of coefficient of x: "))
s2=int(input("enter the value of constant c: "))
d=(b**2)-4*s*s2
if(d<=0):
 print("equation has two complex root")
elif(d==0):
 print("equation has eqaul roots")
else:

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```
[ ] s1=int(input("enter the value of coefficient of x^2: "))
s2=int(input("enter the value of constant c: "))
d=(b**2)-4*s*s2
if(d<=0):
    print("equation has two complex root")
elif(d==0):
    print("equation has equal roots")
else:
    print("equation has equal roots")
    r=(-s2+(d**0.5))/(2*s)

    print("root of the quadratic equation")
```

enter the value of coefficient of x^2: 5
enter the value of coefficient of x: 6
enter the value of constant c: 8
equation has equal roots
root of the quadratic equation

```
#prog7
a=int(input("enter num1: "))
b=int(input("enter num2: "))
c=int(input("enter num3: "))

if (a<b and a<c):
    if(b<c):
        print("sorted order:",a,b,c)
    else:
```

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```
[ ] else:
    print("sorted order:",a,c,b)
elif(b<a and b<c):
    if(a<c):
        print("sorted order:",b,a,c)
    else:
        print("sorted order: ",b,c,a)
else:
    if(a<b):
        print("sorted order:",c,a,b)
    else:
        print("sorted order:",c,b,a)
```

enter num1: 8
enter num2: 4
enter num3: 5
sorted order: 4 5 8

```
[ ] #prog8
a=int(input("enter num1: "))
b=int(input("enter num2: "))
c=int(input("enter num3: "))
if(a>b):
    if(a>c):
        print("larger no: ",a)
```

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```
b=int(input("enter num2: "))
[ ] c=int(input("enter num3: "))
if(a>b):
    if(a>c):
        print("larger no: ",a)
    else:
        print("larger no:",c)
else:
    if(b>c):
        print("larger no:",b)
    else:
        print("larger no: ",c)
```

enter num1: 88
enter num2: 12
enter num3: 60
larger no: 88

```
[ ] #prog9
a=input("enter the character: ")
if(a=='a'or a=='i' or a=='o'or a=='u'or a=='e'):
    print("vowel")
else:
    print("consonants")
enter a character: i
```

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```
larger no: 88
[ ] #prog9
a=input("enter the character: ")
if(a=='a'or a=='i' or a=='o'or a=='u'or a=='e'):
    print("vowel")
else:
    print("consonants")
enter a character: i
vowel
[ ] #prog10
year=int(input("enter year: "))
if (year%400 == 0) or (year%4==0 and year%100!=0):
    print("Leap Year")
else:
    print("Not a Leap Year")
enter year: 1900
Not a Leap Year
```