

3.DECISION MAKING

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DATE:4.1.23

VOTER ELIGIBILITY:

INPUT:

```
age=int(input("enter age"))
if(age>=18):
    print("eligible")
else:
    print("not eligible")
|
```

OUTPUT:

2.READ A CHARACTER .CHECK WHETER IT IS UPPER OR LOWER

```
ch=input("enter a character:")
if(ch>='A'and ch<='Z') :
    ch="U"
    print("ch")
elif(ch>='a'and ch<='z') :
    ch="L"
    print("ch")
else:
    print("enter valid input")
enter age20
eligible
>>> |
```

OUTPUT:

```
enter a character:KARTHIGA
ch
>>> |
```

3.DAYS OF THE WEEK:

INPUT:

OUTPUT:

OUTPUT:

OUTPUT

```
a=int(input("enter a number:"))
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")
elif(a=='6'):
    print("friday")
elif(a=='7'):
    print("saturday")
else:
    print("enter valid input")
|
```

OUTPUT:

```
enter a number:8
enter valid input
```

4.SMALLEST OF THREE NUMBERS:

INPUT:

```
a=int(input("enter the first no:"))
b=int(input("enter the second no:"))
c=int(input("enter the third no:"))
if(a<b):
    print(a,"is smallest")
elif(a<c):
    print(a,"is smallest")
elif(b<c):
    print(b,"is smallest")
else:
    print(c,"is smallest")
```

OUTPUT:

```

=====
enter the first no:5
enter the second no:10
enter the third no:15
5 is smallest
\\ \ |

```

SUPPER CASE OR LOWER CASE :

INPUT:

```

=====
ch=input("enter a character:")
if(ch>='A' and ch<='Z'):
    ch="U"
    print("ch")
elif(ch>='a' and ch<='z'):
    ch="*"
    print("ch")
else:
    print("enter valid input")

```

OUTPUT:

```

===== RESIARI: C
enter a character:KARTHIGA
ch

```

6.QUADRATIC EQUATION:

INPUT:

```

=====
a=int(input("please enter a value of a quadratic equation:"))
b=int(input("please enter b value of a quadratic equation:"))
c=int(input("please enter c value of a quadratic equation:"))
discriminant=(b*b)-(4*a*c)
if(discriminant>0):
    root1=(-b+math.sqrt(discriminant)/(2*a))
    root2=(-b-math.sqrt(discriminant)/(2*a))
    print("two distinct real roots exists:root1=%2f and root2=%2f"%(root1,root2))
elif(discriminant==0):
    root1=root2=-b/(2*a)
    print("two equal and real roots exists:root1=%2f and root2=%2f"%(root1,root2))
elif(discriminant<0):
    root1=root2=-b/(2*a)
    imaginary=math.sqrt(-discriminant)/(2*a)
    print("two distinct complex roots exists:root1=%2f+%2f and root2=%2f"%(root1,imaginary,root2,imaginary))

```

OUTPUT:

----- RESTART: C:/USERS/TEMP.VCE1.010
please enter a value of a quadratic equation:25
please enter b value of a quadritic equation:30
please enter c value of a quadritic equation:-15
