EXPERIMENT   NO   : 1 B

**Python   programs to implement Control flow statements:
Conditional statements (if , if…else , nested if)**

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BATCH : A   BRANCH : IT   DIV : A

**Aim:- To implement Control flow statements : Conditional
statements (if , if…else , nested if)**

THEORY:

OUTPUT:
*Python 3.11.0a4 (main, Jan 17 2022, 12:57:32) [MSC v.1929 32 bit (Intel)] on
win32*
Type "help", "copyright", "credits" or "license()" for more information.
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#IF STATEMENT

A=30
if A>20:
  print("A IS GRATER THAN 20");

  A IS GRATER THAN 20

 # python program to illustrate If else statement
#!/usr/bin/python

1] #IF ELSE PART IS RIGHT
A]
if A>30:
  print("A IS GRATER THAN 10");
  print(" I AM IN BLOCK IF");
else:
  print("A IS SMALLER THAN 10");

```
    print(" I AM IN BLOCK ELSE");
```

A IS SMALLER THAN 10
 I AM IN BLOCK ELSE

B]
```
x=18
if x>18:
   print("YOU ARE ELIGIBLE  FOR VOTE");
   print("YOUR AGE IS:",x);
else:
   print("YOU ARE   NOT ELIGIBLE  FOR VOTE");
   print("YOUR AGE IS:",x);
```

YOU ARE   NOT ELIGIBLE FOR VOTE
YOUR AGE IS: 18

2] #IF PART IS RIGHT
A]
```
A=20
if A>10:
   print("A IS GRATER THAN 10");
   print(" I AM IN BLOCK IF");
else:
   print("A IS SMALLER THAN 10");
   print(" I AM IN BLOCK ELSE");
```

A IS GRATER THAN 10
 I AM IN BLOCK IF

B]
```
x=19
if x>18:
   print("YOU ARE ELIGIBLE  FOR VOTE");
   print("YOUR AGE IS:",x);
```

```
else:
    print("YOU ARE   NOT ELIGIBLE  FOR VOTE");
    print("YOUR AGE IS:",x);
```

YOU ARE ELIGIBLE FOR VOTE
YOUR AGE IS: 19

 # python program to illustrate nested If statement

A]
```
if a==20:
   #  First if statement
   if a<30:
      print("A IS SMALLER THAN 30");
   if a>19:
      print("A IS GRATER THAN 19");
   else:
       print("A IS SMALLER THAN 19");
```

A IS SMALLER THAN 30
A IS GRATER THAN 19

B]
```
if a==31:
   #  First if statement
   if a<30:
      print("A IS SMALLER THAN 30");
   if a>19:
      print("A IS GRATER THAN 19");
   else:
       print("A IS SMALLER THAN 19");
```

A IS GRATER THAN 19

#if else input from user

```
x=input("ENTER YOUR AGE :")
ENTER YOUR AGE :19
if x>18:
    print("YOU ARE ELIGIBLE  FOR VOTE");
    print("YOUR AGE IS:",x);
else:
    print("YOU ARE   NOT ELIGIBLE  FOR VOTE");
    print("YOUR AGE IS:",x);

YOU ARE ELIGIBLE  FOR VOTE
YOUR AGE IS:19
```

Python program to illustrate if-elif-else ladder
A]

```
a=30
if a==20:
    print("A IS 20");
elif a==16:
    print("A IS 16");
elif a==89:
    print("A is 89");
else:
    print("A IS NOT PRESENT");

    A IS NOT PRESENT
```

B]

```
a=20
if a==20:
    print("A IS 20");
elif a==16:
    print("A IS 16");
elif a==89:
    print("A is 89");
else:
    print("A IS NOT PRESENT");

A IS 20
```