SESSION - 11
VOTING MACHINE

Learning Outcomes:

- **Remember**: The students will list different ways in which we can store, update values in a variable .
- **Understand**: - They will focus on understanding the execution of the program by the use of IF-ELSE STRUCTURE
  - They will understand how to compare and perform operations on stored values .
- **Apply**: They will apply the concepts learnt to the code of Voting Machine Program .
- **Analyze**: They will check their understanding by developing the codes
- **Create**: They will create the code in EduBlocks

Remember & Understanding

ACTIVITY DESCRIPTION

In this activity we are creating a code for voting machine.

There will be 2 candidates and number of voters will be user input.

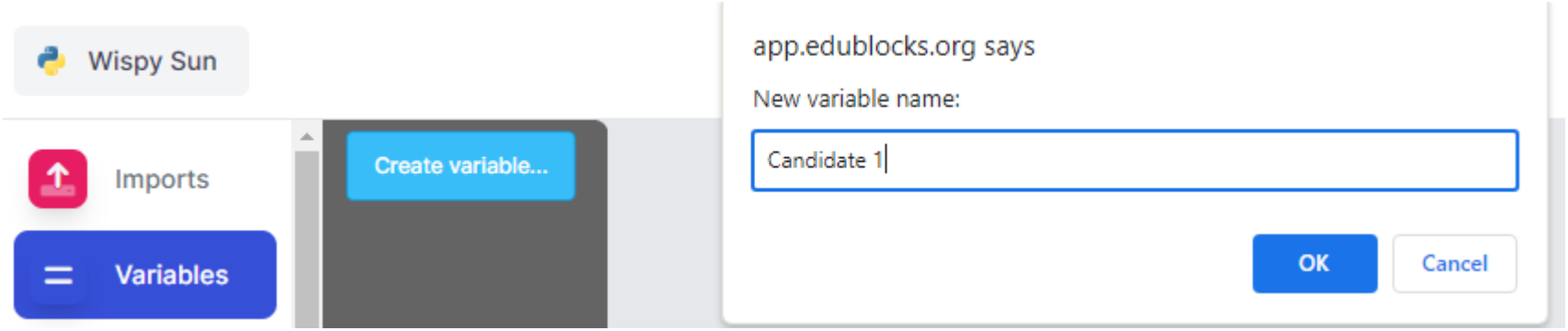
After voting compare votes and declare winner.

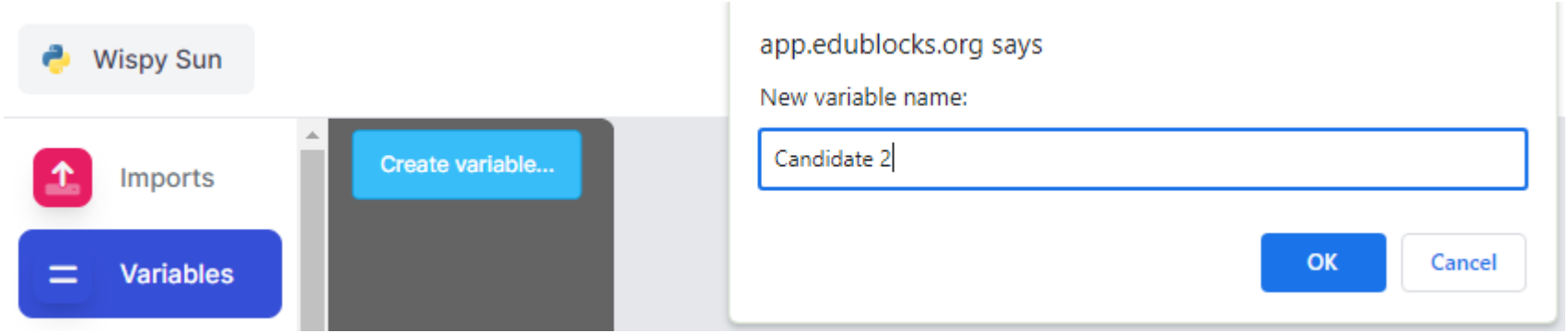
Apply & Create

ACTIVITY 01:-

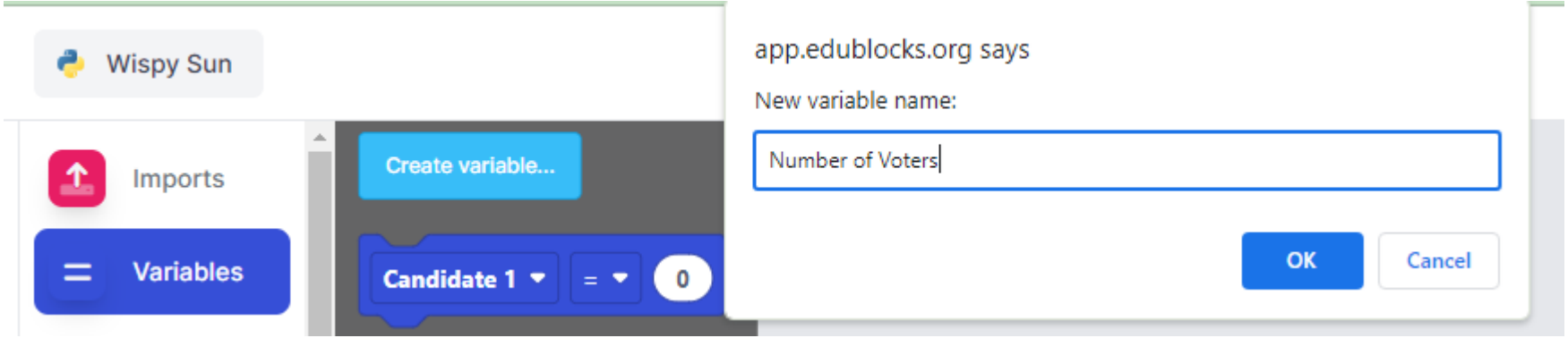
</> WRITE THE PROGRAM TO CREATE A LIST AND TEST ALL FIVE OPERATIONS

Program Step 1:-

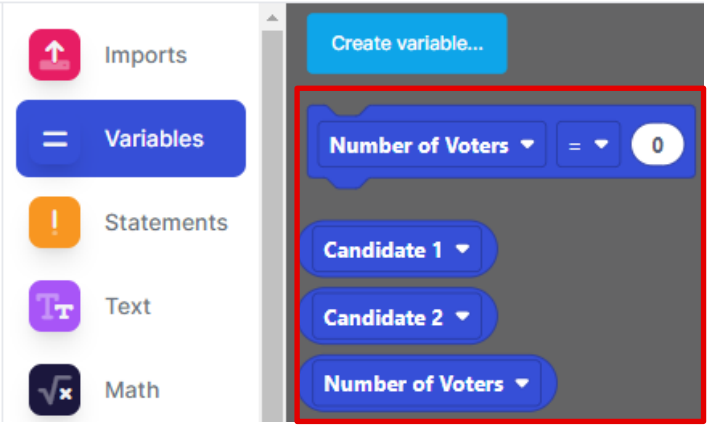


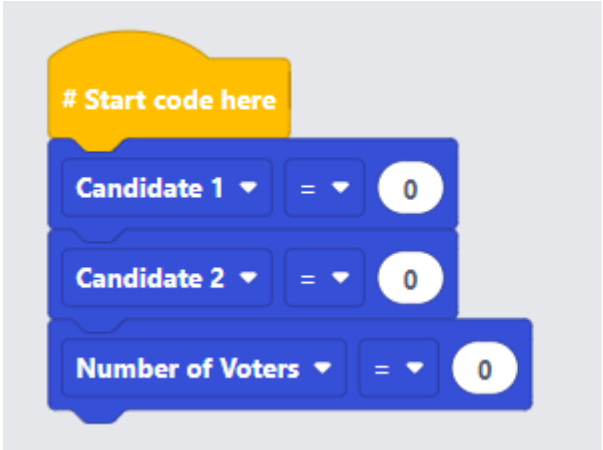


Program Step 2:-



Program Step 3:-

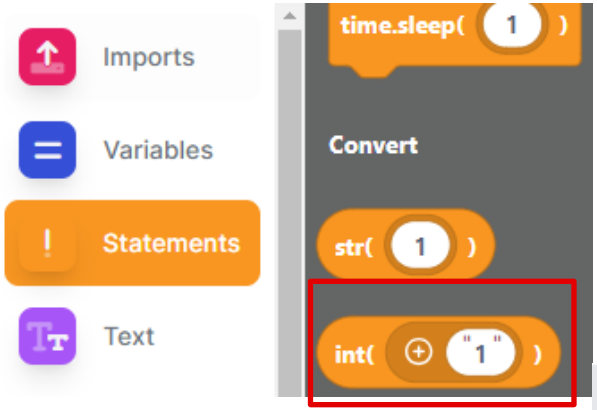


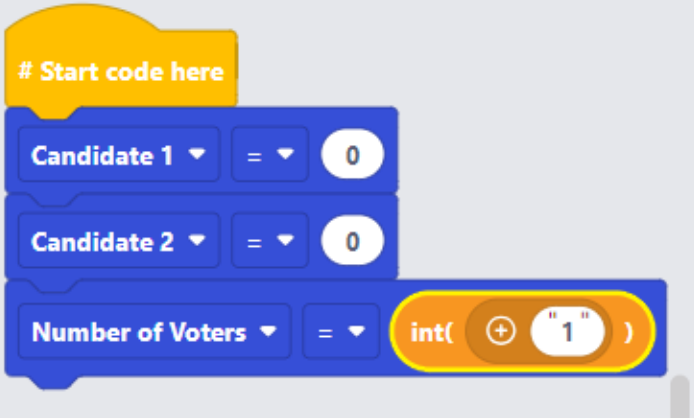


Code

```
1  #Start code here
2  Candidate_1 = 0
3  Candidate_2 = 0
4  Number_of_Voters = 0
5
```

Program Step 4:-

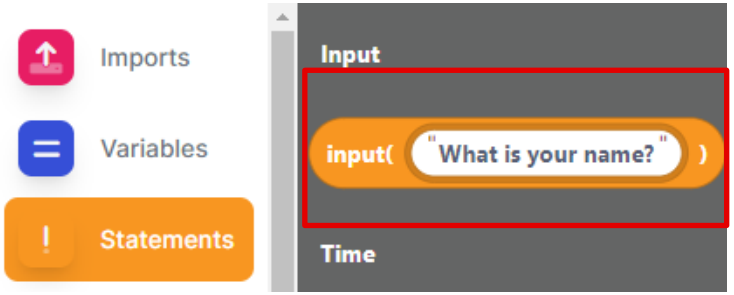


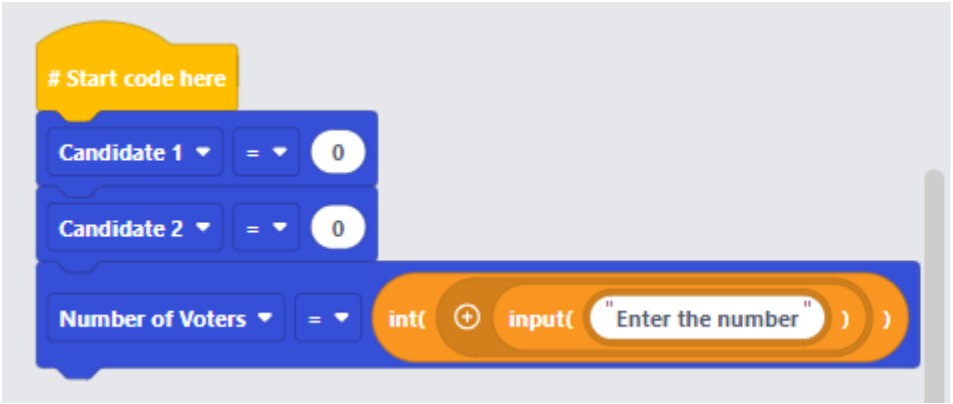


Code

```
1  #Start code here
2  Candidate_1 = 0
3  Candidate_2 = 0
4  Number_of_Voters = int("1")
5
```

Program Step 5:-

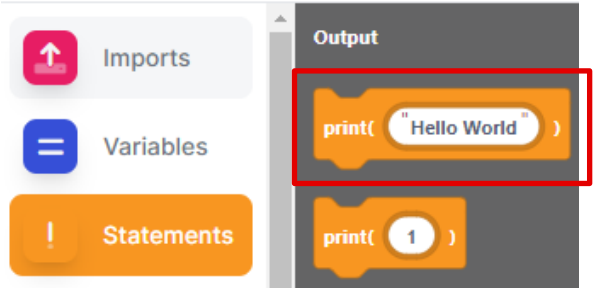


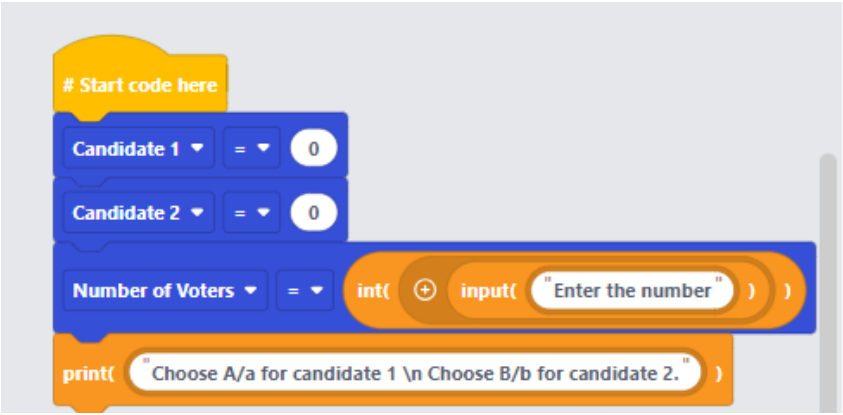


Code

```
1  #Start code here
2  Candidate_1 = 0
3  Candidate_2 = 0
4  Number_of_Voters = int(input("Enter the number"
5
```

Program Step 6:-

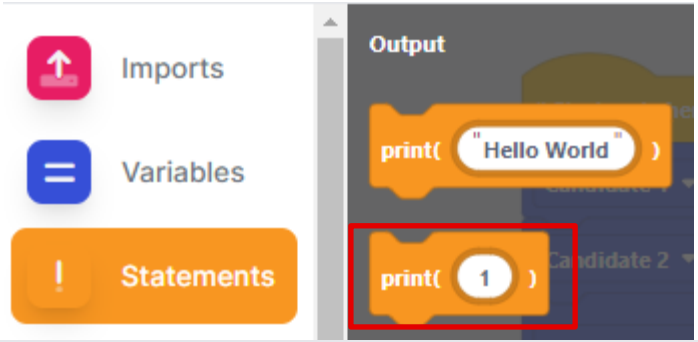


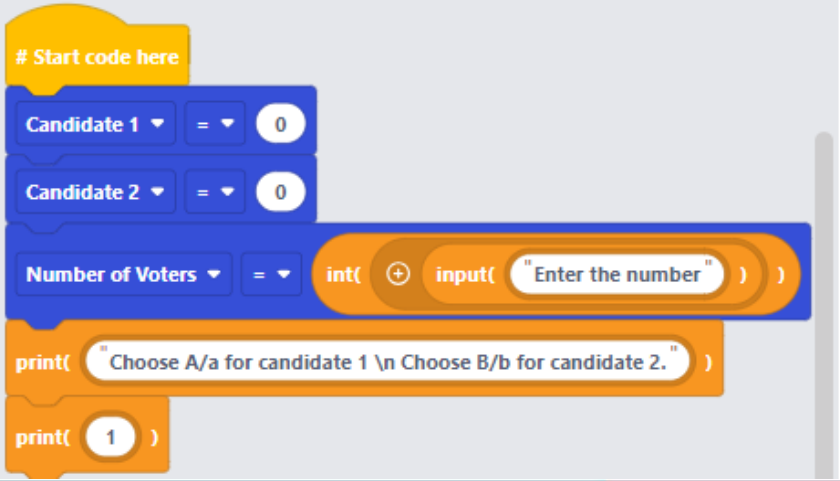


Code

```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("Enter the number"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate
```

Program Step 7:-

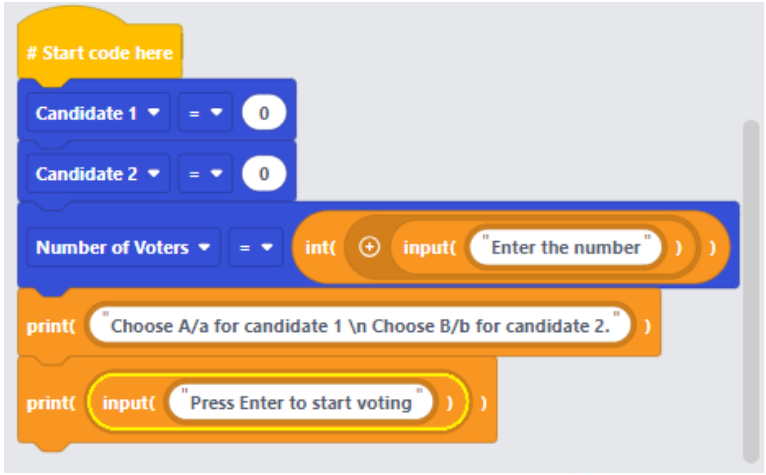




Code

```
1  #Start code here
2  Candidate_1 = 0
3  Candidate_2 = 0
4  Number_of_Voters = int(input("Enter the number"))
5  print("Choose A/a for candidate 1 \n Choose B/b for candidat
6  print(1)
7
```

Program Step 8:-

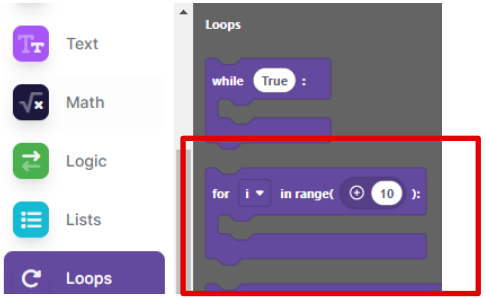


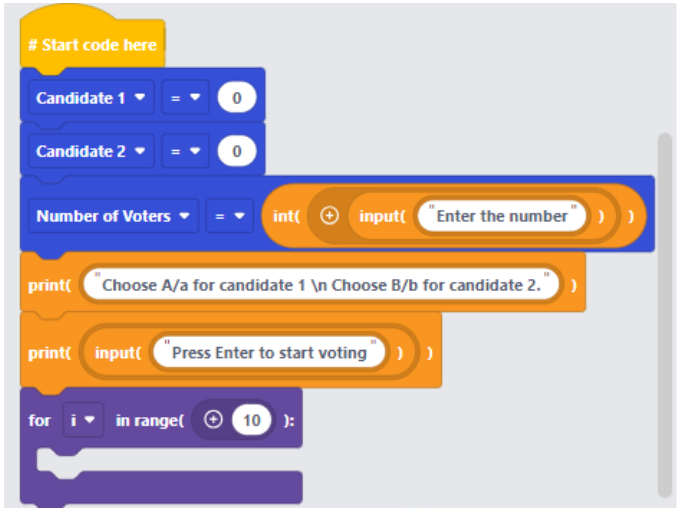
Code

```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("Enter the number"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate
print(input("Press Enter to start voting"))

```

Program Step 9:-



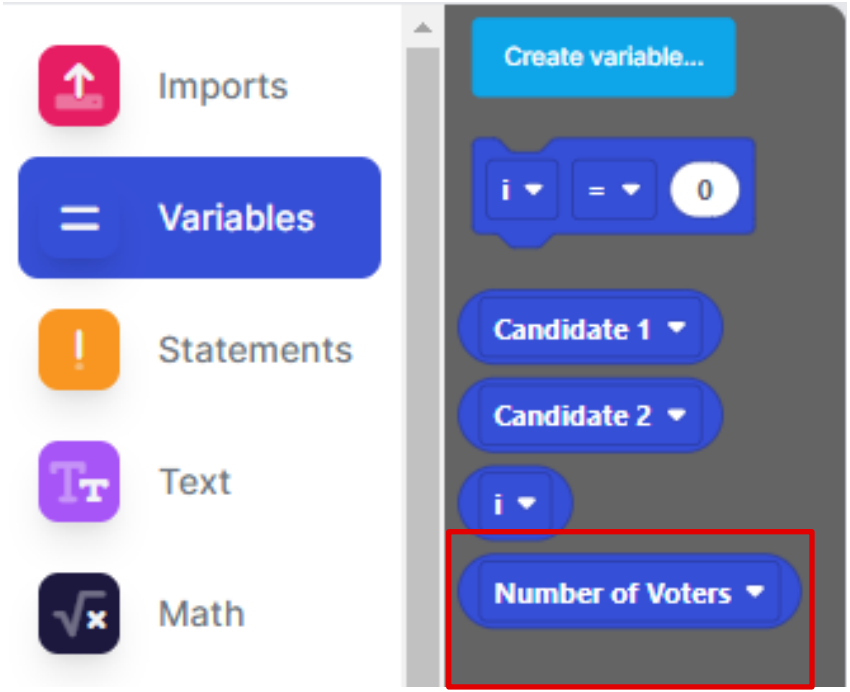


Code

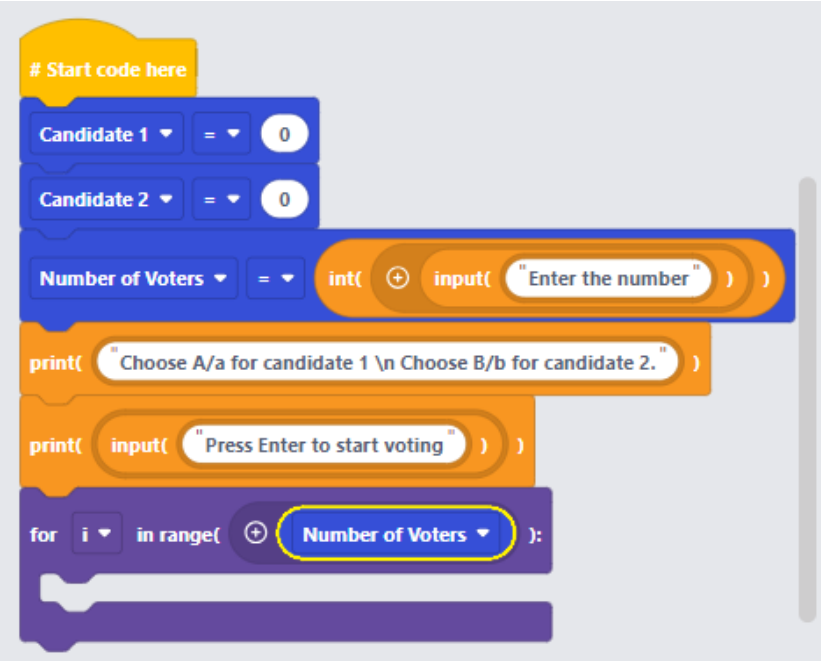
```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("Enter the number"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate
print(input("Press Enter to start voting"))
for i in range(10):
  pass

```

Program Step 10:-



Program Step 11:-

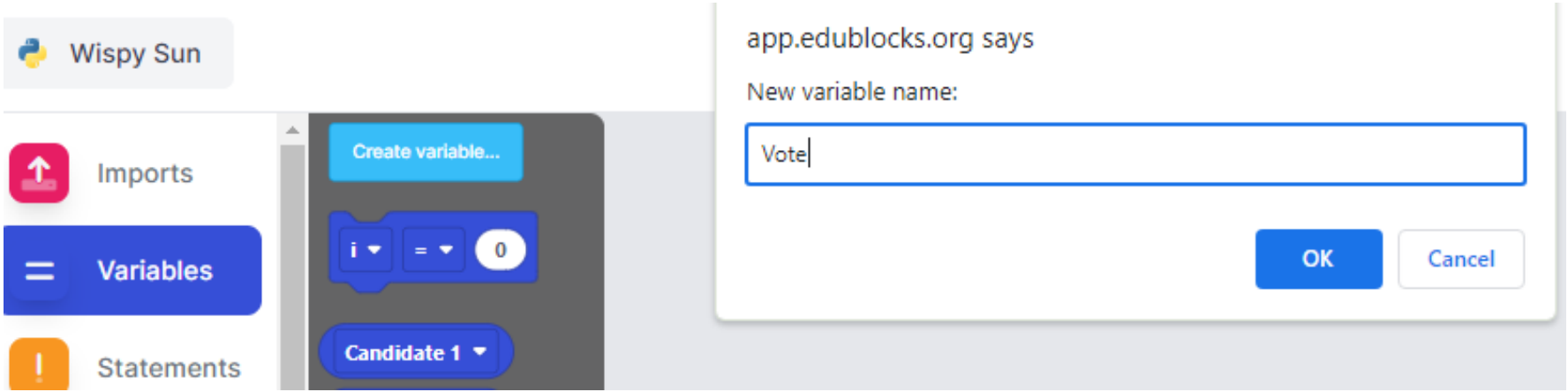


Code

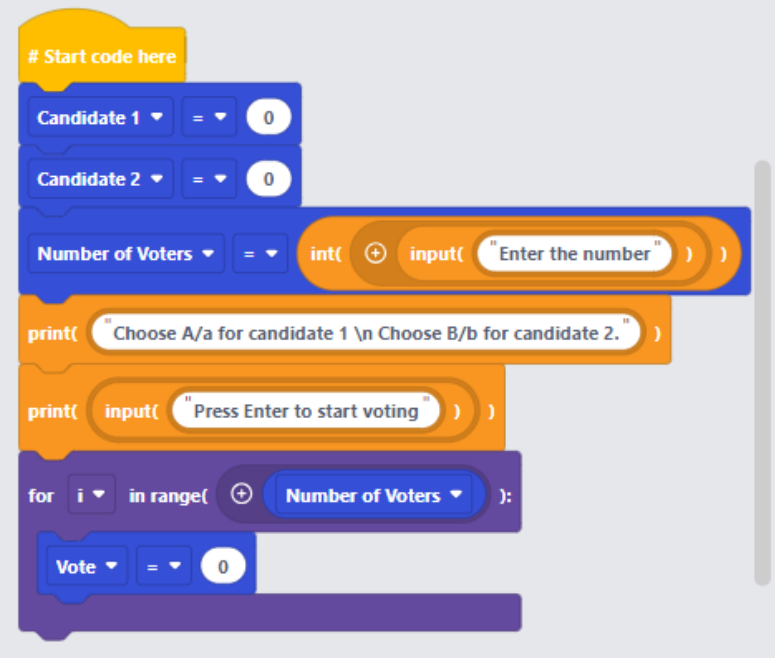
```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("Enter the number"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
    pass

```

Program Step 12:-



Program Step 13:-



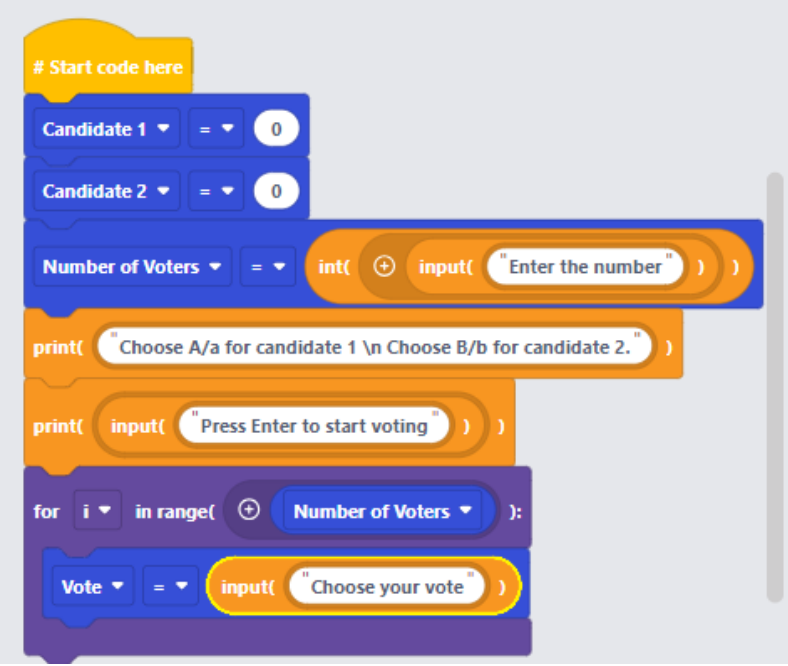
Code

```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("Enter the number"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = 0

```

Program Step 14:-

Program Step 15:-

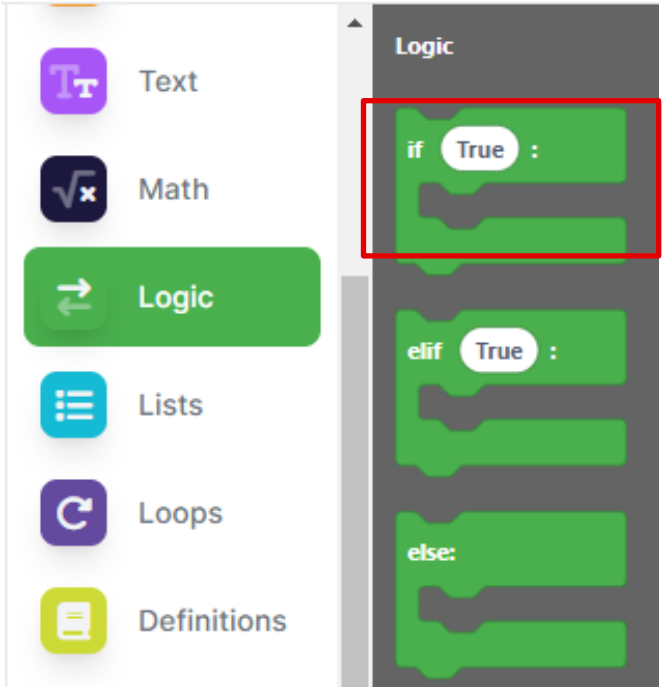


Code

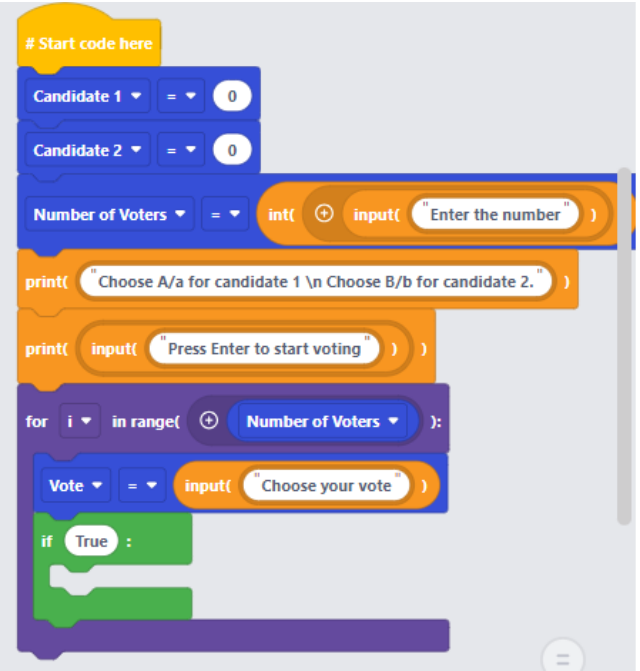
```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("Enter the number"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")

```

Program Step 16:-



Program Step 17:-

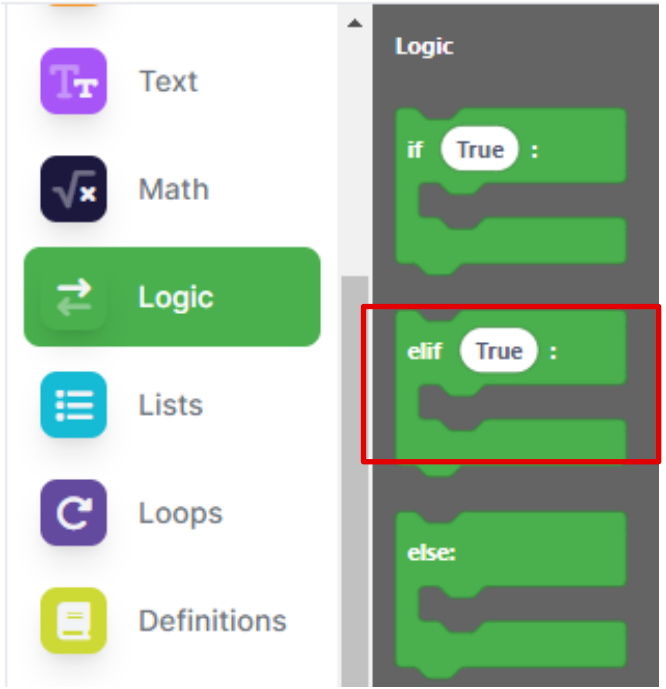


Code

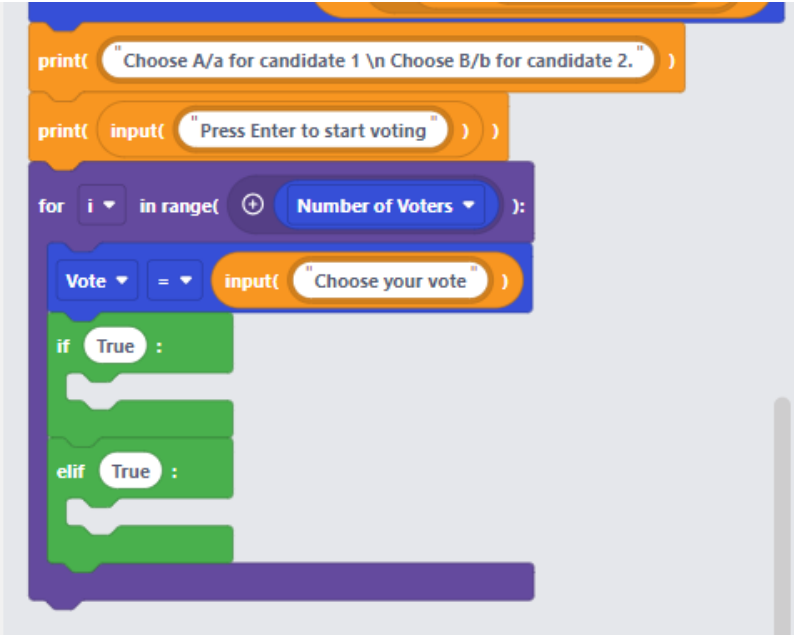
```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("Enter the number"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if True:
    pass

```

Program Step 18:-



Program Step 1:-

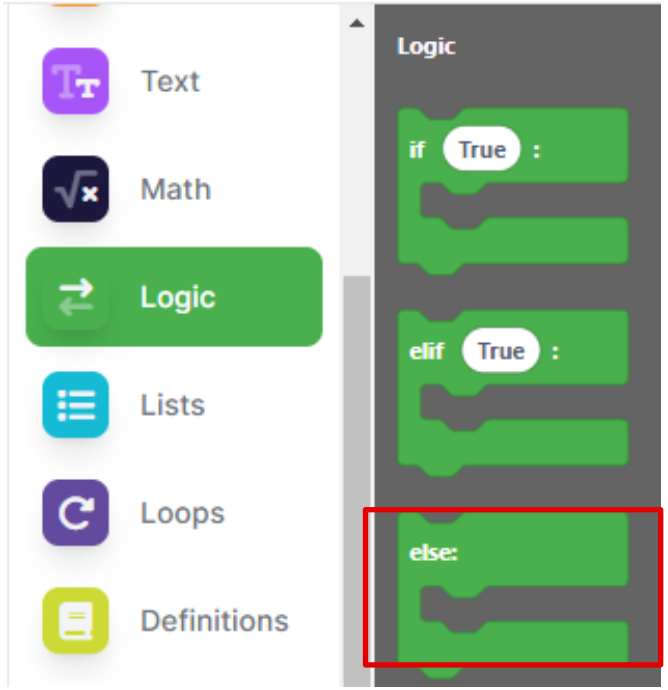


Code

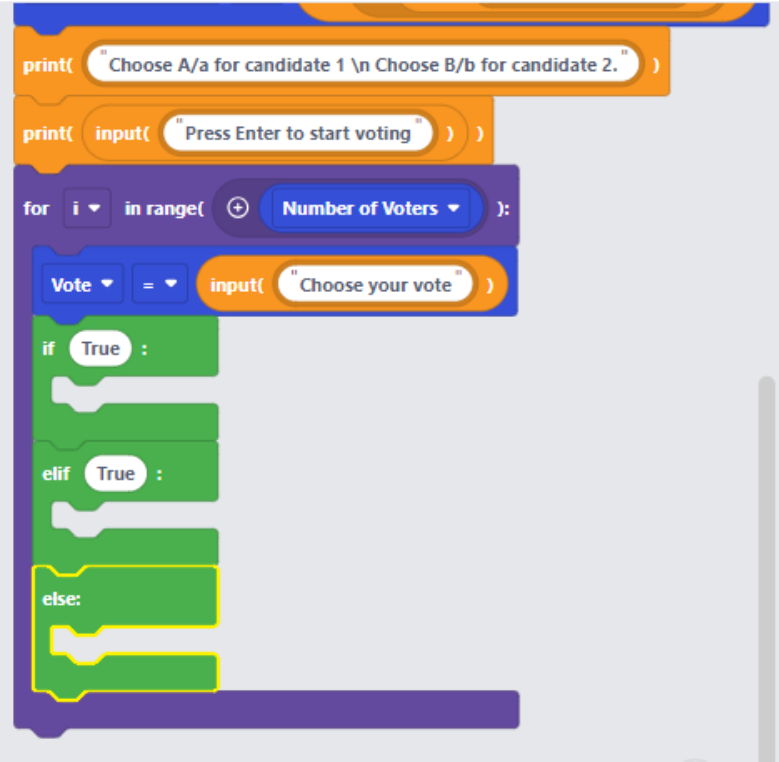
```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("What is your name?"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate 2."
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if True:
    pass
  elif True:
    pass

```

Program Step 19:-



Program Step 20:-

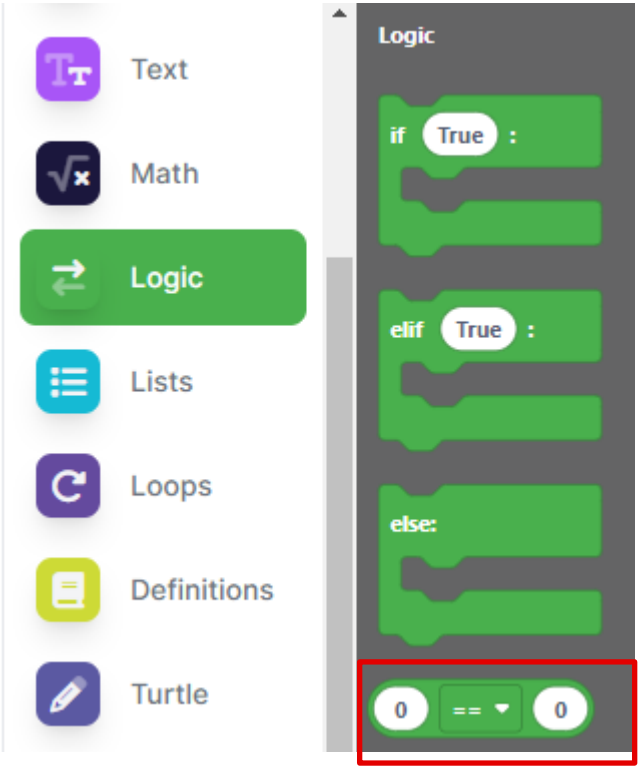


Code

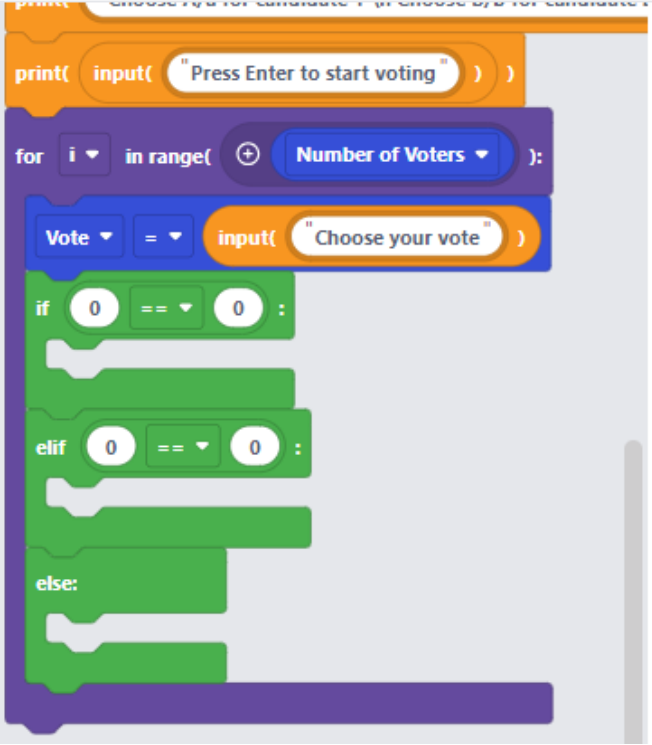
```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("What is your name?"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate 2."
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if True:
    pass
  elif True:
    pass
  else:
    pass

```

Program Step 21:-



Program Step 22:-

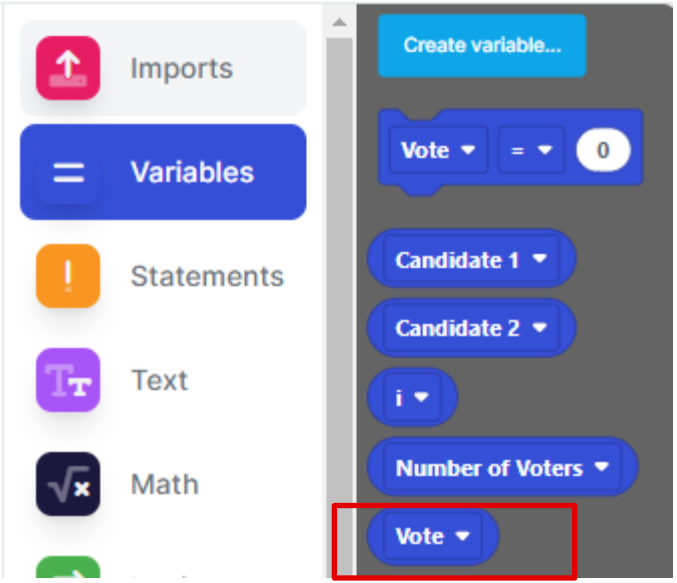


Code

```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("What is your name?"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate 2."
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if 0 == 0:
    pass
  elif 0 == 0:
    pass
  else:
    pass

```

Program Step 23:-



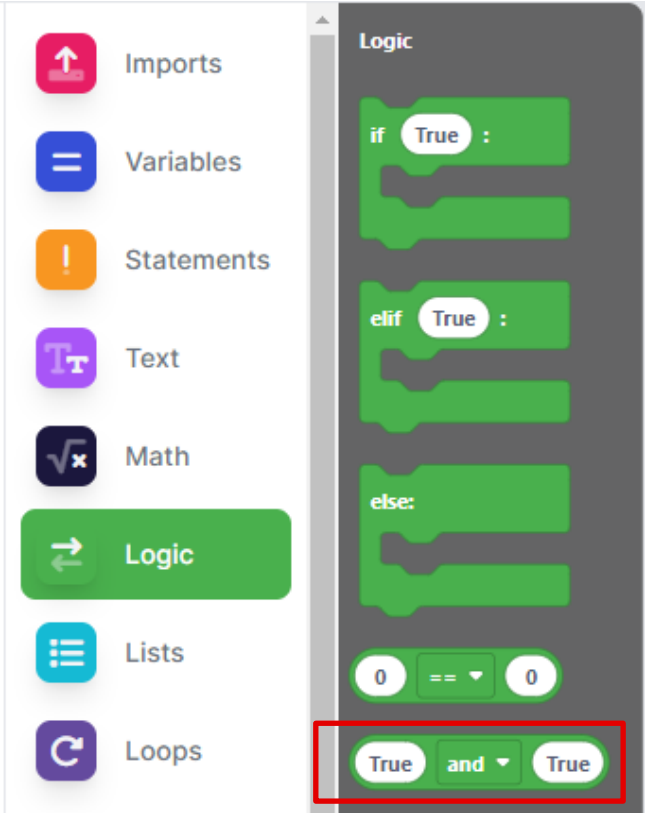
Program Step 24:-

Code

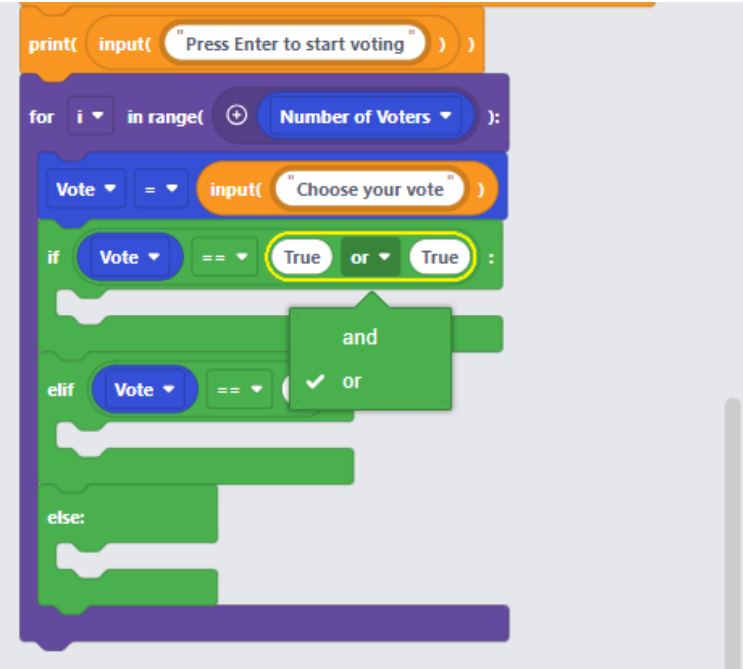
```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("What is your name?"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate 2."
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if Vote == 0:
    pass
  elif Vote == 0:
    pass
  else:
    pass

```

Program Step 25:-



Program Step 26:-

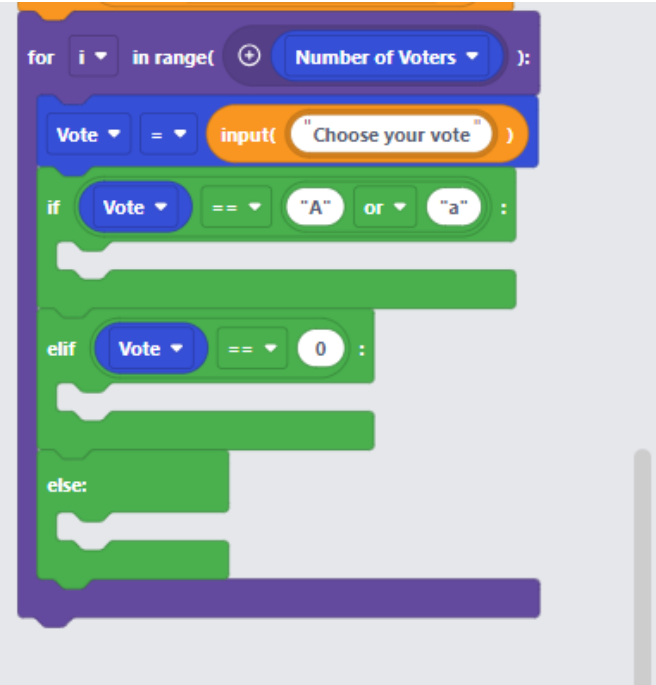


Code

```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("What is your name?"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate 2."
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if Vote == True or True:
    pass
  elif Vote == 0:
    pass
  else:
    pass

```

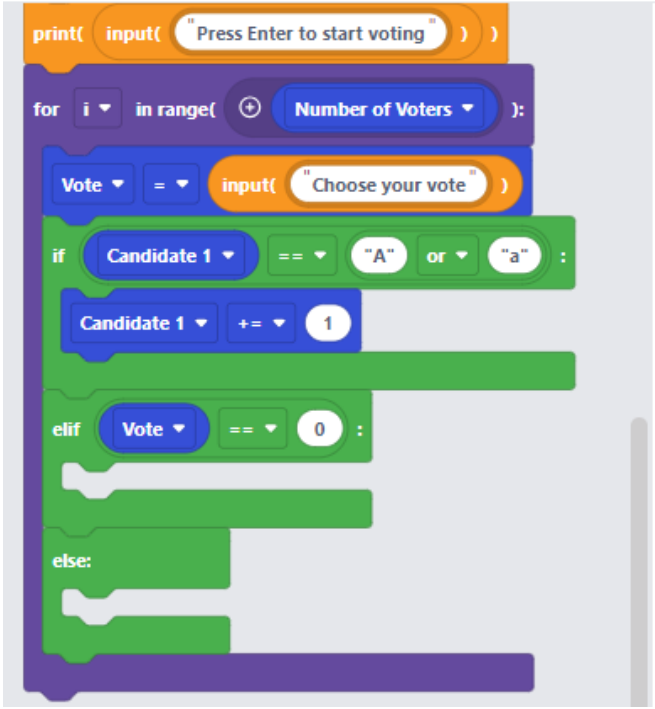
Program Step 27:-



Code

```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("What is your name?"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate 2."
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if Vote == "A" or "a":
    pass
  elif Vote == 0:
    pass
  else:
    pass
```

Program Step 28:-

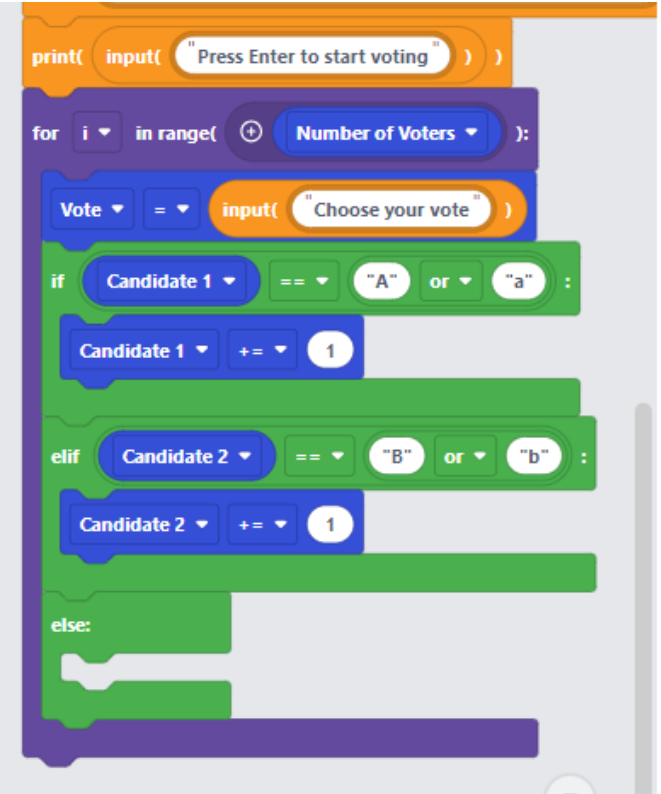


Code

```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("What is your name?"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate 2."
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if Candidate_1 == "A" or "a":
    Candidate_1 += 1
  elif Vote == 0:
    pass
  else:
    pass

```

Program Step 29:-

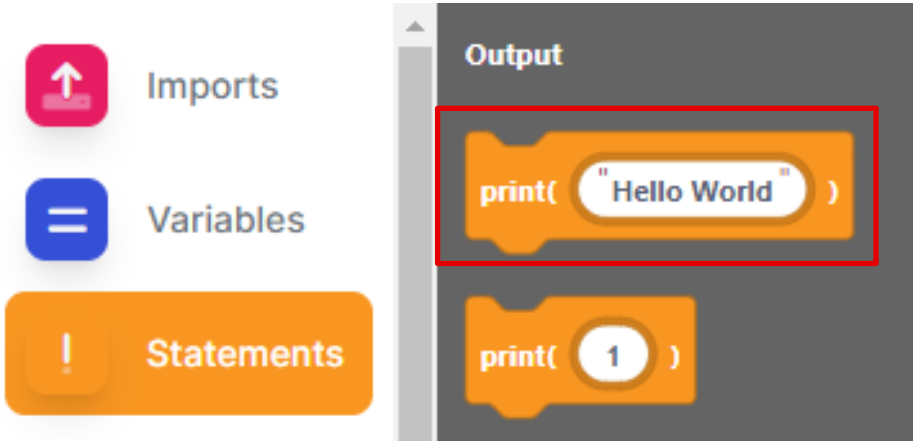


Code

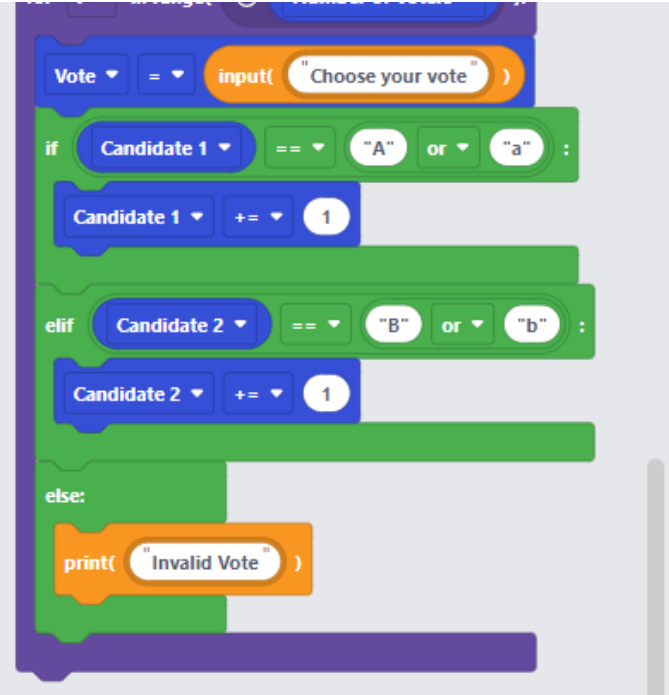
```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("What is your name?"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate 2."
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if Candidate_1 == "A" or "a":
    Candidate_1 += 1
  elif Candidate_2 == "B" or "b":
    Candidate_2 += 1
  else:
    pass

```

Program Step 30:-



Program Step 31:-

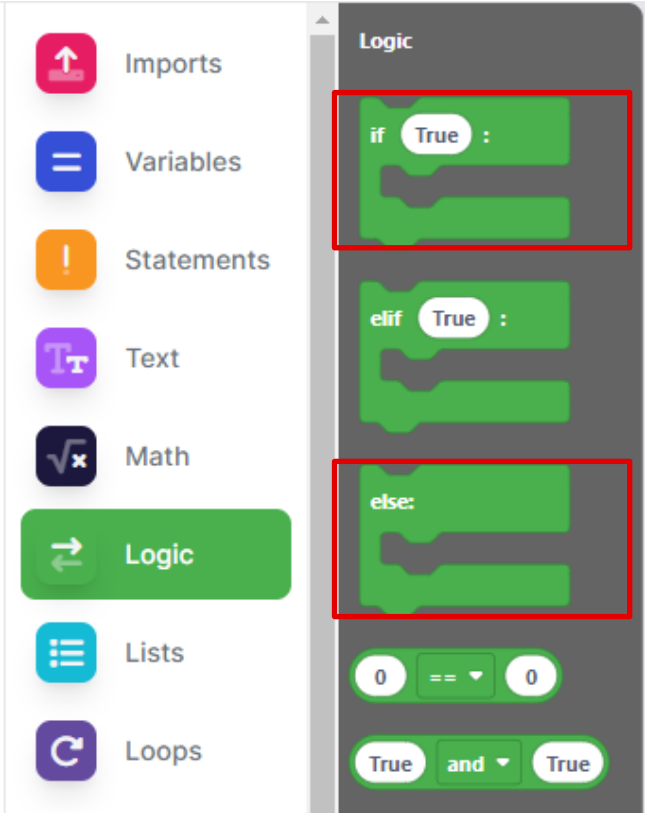


Code

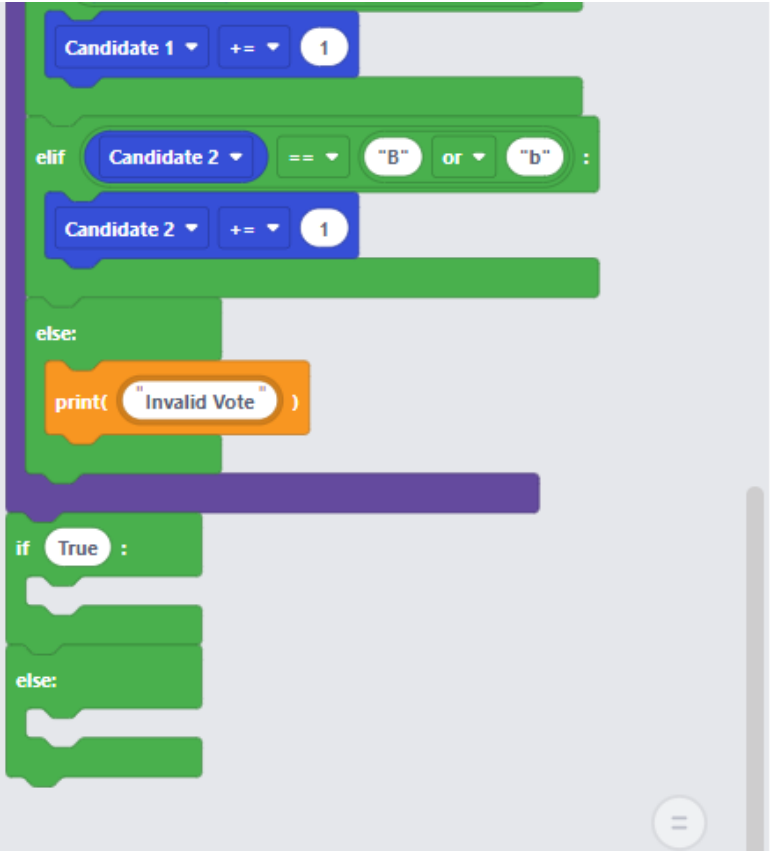
```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("What is your name?"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate 2."
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if Candidate_1 == "A" or "a":
    Candidate_1 += 1
  elif Candidate_2 == "B" or "b":
    Candidate_2 += 1
  else:
    print("Invalid Vote")

```

Program Step 32:-



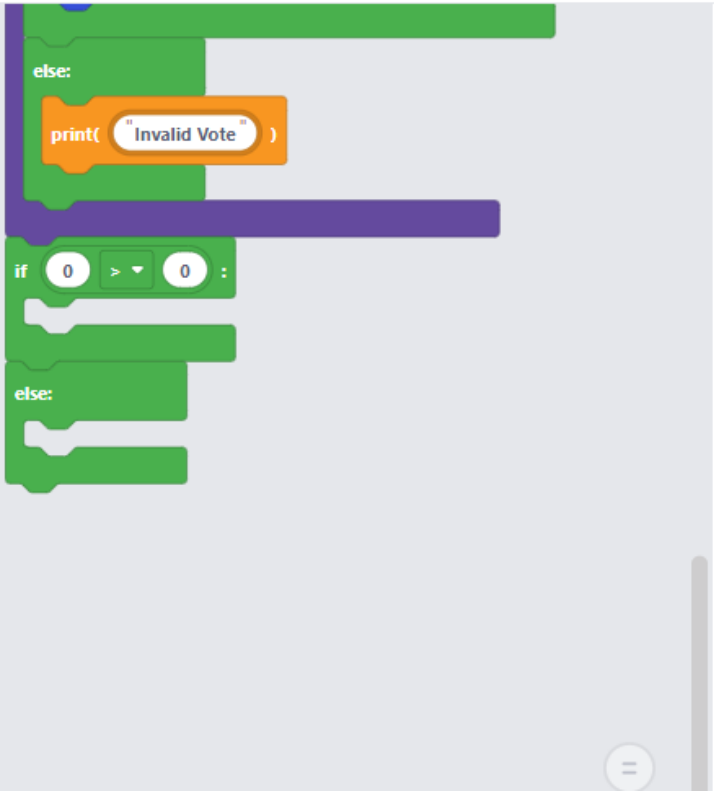
Program Step 33:-



Code

```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("What is your name?"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate 2."
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if Candidate_1 == "A" or "a":
    Candidate_1 += 1
  elif Candidate_2 == "B" or "b":
    Candidate_2 += 1
  else:
    print("Invalid Vote")
if True:
  pass
else:
  pass
```

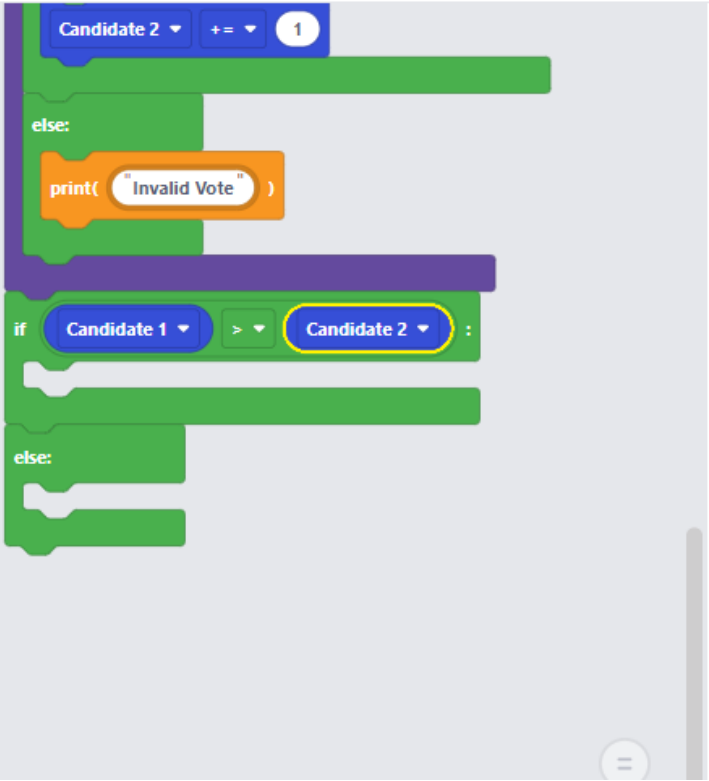
Program Step 34:-



Code

```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("What is your name?"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate 2."
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if Candidate_1 == "A" or "a":
    Candidate_1 += 1
  elif Candidate_2 == "B" or "b":
    Candidate_2 += 1
  else:
    print("Invalid Vote")
if 0 > 0:
  pass
else:
  pass
```

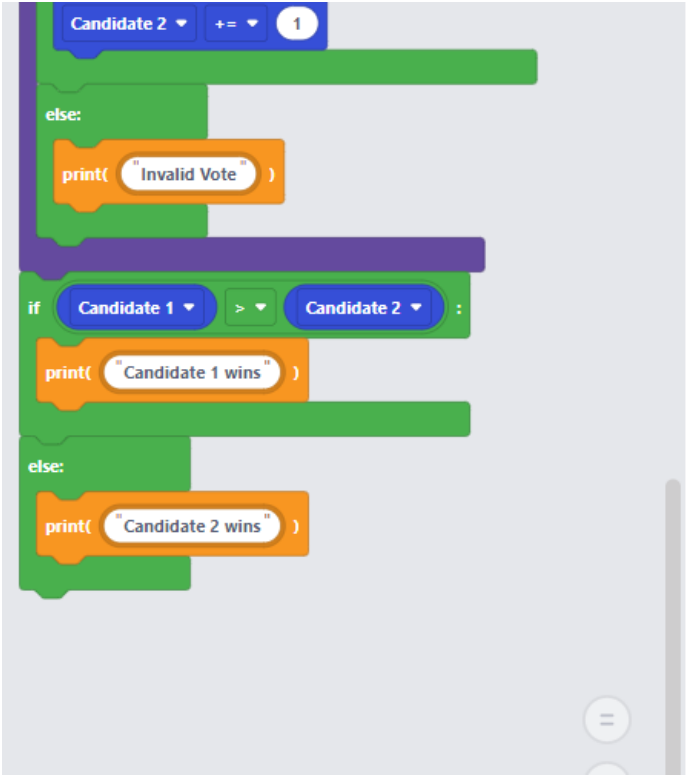
Program Step 35:-



Code

```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("What is your name?"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate 2."
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if Candidate_1 == "A" or "a":
    Candidate_1 += 1
  elif Candidate_2 == "B" or "b":
    Candidate_2 += 1
  else:
    print("Invalid Vote")
if Candidate_1 > Candidate_2:
  pass
else:
  pass
```

Program Step 36:-



Code

```
#Start code here
Candidate_1 = 0
Candidate_2 = 0
Number_of_Voters = int(input("What is your name?"))
print("Choose A/a for candidate 1 \n Choose B/b for candidate 2."
print(input("Press Enter to start voting"))
for i in range(Number_of_Voters):
  Vote = input("Choose your vote")
  if Candidate_1 == "A" or "a":
    Candidate_1 += 1
  elif Candidate_2 == "B" or "b":
    Candidate_2 += 1
  else:
    print("Invalid Vote")
if Candidate_1 > Candidate_2:
  print("Candidate 1 wins")
else:
  print("Candidate 2 wins")

```

Output

```
Powered by trinket
Enter the number 3
Choose A/a for candidate 1
 Choose B/b for candidate 2.
Press Enter to start voting

Choose your vote A
Choose your vote A
Choose your vote A
Candidate 1 wins
```

ACTIVITY SHEETS

Question 1:
How many operations we can do on variable?

A. 1
B. 3
C. 2
D. 4

Question 2:
Which is the symbol of decrement operation?

A. ==
B. -=
C. +=
D. =-

Question 3:
Which is the symbol of Increment operation?

A. ==
B. +=
C. =+
D. ++

Question 4:
Name the operation “=!”

A. not equal to
B. equal to
C. equal
D. none of these

Question 5:
Name the operation “>=”

A. not equal
B. equal to
C. greater than
D. lesser than

Homework

- Create a program to vote between 4 members.