```
# Display Menu-> for user
Below created is function which user defined function.
here we are achieving a menu which user going to see when program
get started
here to define function -keyword -def to be used
& we defined to function display menu()
synatx:
def function_name():
  function_body
indentation to write function_body to be taken care of, which
can be seen below.
i have created 7 selections which will do airthmetic operations
& last select to break/exit out of program.
def display_menu():
  print("--- Welcome to the Simple Calculator ---")
  print("--> Select 1 for Addition")
  print("--> Select 2 for Subtraction")
  print("--> Select 3 for Multiplication")
   print("--> Select 4 for Division")
  print("--> Select 5 for Power")
   print("--> Select 6 for True Quotient")
   print("--> Select 7 for Remainder")
   print("--> Select 8 for Exit")
```

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# User choice->
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to achieve this we have created function name "get_choice()" with while loop & with boolean condition.

also we have handled exception which can occur while handling user choice at the output end , if use enter invalid input such as if user enter letter "one" instead of 1 digit then error will occure & we wont be able process further.

so to handle this first we have to check which error comes when user enter word.

```
# Testing for calculator project
choice = int(input("Enter your choice (1/2/3/4/5/6/7/8): "))
while choice>=1 and choice<=8:
    print("Correct choice")</pre>
```

hence to handle this logical error we have used exception method, which is try-except-finally

also to select between 1 to 8 choice- we have used logical operator here that is and operator, if both i/p's turn 1 or true it will process further

here return is keyword which will hold the result but wont display at the output, which can used later if we want.

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```
def get_choice():
  while True:
     try:
        choice = int(input("Enter your choice (1/2/3/4/5/6/7/8): "))
        if choice>=1 and choice<=8: #Logical operator- and logic - it will see if both choice
condition turn out be true then only it will process choice & hold value but wont display it
due return statement written
           return choice
        else:
           print("Invalid choice, Please select a choice number between 1 to 8!!.")
     except ValueError:
                               #ValueError: Logical error-if exception error (logical error)
has any spelling mistake in wont work, hence before putting test it
        print("Select choice in digit format only!")
# Get two numbers from user->
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here to achieve, getting 2 numbers from user we have created an
function with while loop & boolean true condition, which we mentioned
as a True which execute the try-except-finally exception loop.
where
try: is holding logic which will accept user 2 inputs n1,n2
and hold n1,n2
where
except followed by error names, here we have taken care of 2 errors.
will get handled if occur.
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```

```
def get_numbers():
    while True:
        try:
            n1 = float(input("Enter Number 1: "))
            n2 = float(input("Enter Number 2: "))
            return n1,n2
            except ZeroDivisionError: # if exception error (logical error) has any spelling mistake
in wont work,hence before putting test it
            print("Denominator can not be Zero!")
            except ValueError: # if exception error (logical error) has any spelling mistake in
wont work,hence before putting test it
            print("Enter number in digit format only!")
```