Program Code

else:

```
def enter_sequence():
  dnalist = []
  dnain = input("Enter a DNA sequence: ")
  for char in dnain:
     dnalist.append(char)
  process_select(dnalist)
def process_select(dna):
  print("")
  print("Do what with DNA sequence?")
  print("1 Display Sequence")
  print("2 Find Complimentary Sequence")
  print("3 Purge and Enter New Sequence")
  selection = int(input("> "))
  if selection == 1:
     print(space_strand(dna))
     process_select(dna)
  elif selection == 2:
    print("")
     output = translate(dna)
     print("\nOutput has been flipped to correct prime ends.")
     print(output)
     process_select(dna)
  elif selection == 3:
     print("")
     enter_sequence()
  else:
     print("Invalid selection!")
     process_select(dna)
def find_complimentary_bases(dna):
  ans = []
  for i in range(len(dna)):
     if dna[i] == "A":
       ans.append("T")
     elif dna[i] == "T":
       ans.append("A")
     elif dna[i] == "G":
       ans.append("C")
     elif dna[i] == "C":
       ans.append("G")
```

```
nil = 0
   return ans
def flip_strand(dna):
   answer = []
  for i in reversed(dna):
     answer.append(i)
   return answer
def space_strand(dna):
  stri = ".join(dna)

stri = " ".join(stri[i:i+3]

for i in range(0, len(stri), 3))
   return stri
   return dna
def translate(dna):
   toFlip = find_complimentary_bases(dna)
   final = flip_strand(toFlip)
   final = space_strand(final)
   return final
enter_sequence()
```