```
#Creating a list
list1 = [1, 2, 3, "Souvik", "Adhikary", "MAKAUT"]
#a) insert()
list1.insert(5, 5)
#printing new list
print(list1)
     [1, 2, 3, 'Souvik', 'Adhikary', 5, 5, 'MAKAUT']
#b) remove()
list1.remove(5)
#printing new list
print(list1)
     [1, 2, 3, 'Souvik', 'Adhikary', 'MAKAUT']
#c) append()
list1.append(6)
#printing new list
print(list1)
[→ [1, 2, 3, 'Souvik', 'Adhikary', 'MAKAUT', 6]
#d) len()
len(list1)
#e) pop()
list1.pop(0)
#printing new list
print(list1)
     [2, 3, 'Souvik', 'Adhikary', 'MAKAUT', 6]
#f) clear()
list1.clear()
#priting list now
print(list1)
     []
#python program to take in the marks of 5 subjects and display the grade
sub1 = int(input("Enter the marks of first subject: "))
sub2 = int(input("Enter the marks of second subject: "))
sub3 = int(input("Enter the marks of third subject: "))
sub4 = int(input("Enter the marks of fourth subject: "))
sub5 = int(input("Enter the marks of fifth subject: "))
tot = sub1+sub2+sub3+sub4+sub5
avg = tot/5
if (avg >= 90):
 print("Student grade is A")
elif (avg >= 80 and avg < 90):
 print("Student grade is B")
elif (avg >= 70 and avg < 80):
 print("Studnet grade is C")
elif (avg >= 60 and avg < 70):
 print("studnet grade is D")
elif (avg >= 35 and avg < 60):
 print("Student grade is E")
else:
 print("Student failed")
     Enter the marks of first subject: 10
     Enter the marks of second subject: 2
     Enter the marks of third subject: 3
     Enter the marks of fourth subject: 6
     Enter the marks of fifth subject: 4
     Student failed
```

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#Python program to reverse a given number
n = int(input("Enter number: "))
while (n > 0):
   dig = n\%10
   rev = rev * 10 + dig
    n = n//10
print("Reverse of the number:", rev)
     Enter number: 456
     Reverse of the number: 654
#Python program to read a number n and compute n+nn+nnn......
n = int(input("Enter a number n: "))
temp = str(n)
t1 = temp+temp
t2 = temp+temp+temp
t3 = temp+temp+temp
t4 = temp+temp+temp+temp
comp = n + int(t1) + int(t2) + int(t3) + int(t4)
print("The value is:",comp)
     Enter a number n: 4
     The value is: 49380
#Write a python program to print date, time for today and now.
import datetime
now = datetime.datetime.now()
print("Time for today and now: ")
print(now.strftime("%d-%m-%Y %H:%M:%S"))
     Time for today and now:
     15-12-2022 14:57:01
#Using a numpy module creating an array
import numpy as np
arr = np.array([1, 2, 3, 4, 5])
print(arr)
     [1 2 3 4 5]
#a)type of array
print(type(arr))
     <class 'numpy.ndarray'>
#b)axes of array
import numpy as np
np_array = np.arange(0, 8).reshape([4, 2])
print(np_array)
     [[0 1]
      [2 3]
      [4 5]
[6 7]]
#one more type of axis
import numpy as np
np array1 = np.arange(0, 10).reshape(2, 5)
print(np_array1)
     [[0 1 2 3 4]
      [5 6 7 8 9]]
#c)shape of array
import numpy as np
arr1 = np.array([[1,2.3,"Adhikary"], [4.1,5,"Souvik"]])
print(arr1.shape)
     (2, 3)
#D)Types of element in array
import numpy as np
element = np.array([1, 2, 3])
print(element.dtype)
```