1.sud nam sem pin

```
name = input("enter your name:")
sem = int(input("enter your semester:"))
city = input("enter your city name:")
pincode = int(input("enter your pincode of your city:"))
print("\n\n\n")
print("student name:", name)
print("semester:", sem)
print("city:", city)
print("pincode:", pincode)
```

2.evaluatr expression

```
a = 20
b = 10
sum_value = a + b
sub_value = a - b
print('The value of a is {} and b is {}'.format(a, b))
print('{} is the sum of {} & {}'.format(sum_value, a, b))
print('{Sub_value} is the subtraction of {value_a} and {value_b}'.format(value_a=a, value_b=b, Sub_value=sub_value))
```

3.ram sham youngest

```
ram = int(input("Enter the age of Ram: "))
shyam = int(input("Enter the age of Shyam: "))
ajay = int(input("Enter the age of Ajay: "))
if (ram < shyam) and (ram < ajay):
    print("Ram is the youngest.")
elif (shyam < ram) and (shyam < ajay):
    print("Shyam is the youngest.")
else:
    print("Ajay is the youngest.")
```

4.clander

```
year = int(input("Enter the year: "))

if year < 1582:
    print("Year is not in the Gregorian calendar.")
elif year % 4 != 0:
    print("Common year.")
elif year % 100 == 0 and year % 400 != 0:
    print("Common year.")
else:
    print("Leap year.")
```

5.letter

```
word = input("Enter a word, phrase, or sentence: ").strip()
reverse = ""
for i in letter:
    reverse = i + reverse
print("Reversed word, phrase, or sentence is:", reverse)
if letter == reverse:
    print("The word, phrase, or sentence is a palindrome.")
else:
    print("The word, phrase, or sentence is not a palindrome.")
```

6.factotrail

```
n = int(input("Enter a number: "))
temp = n
fact = 1

while n != 0:
    fact *= n
    n -= 1

print("Factorial of {0} is {1}.".format(temp, fact))
```

7.set of comperion perform

```
set1 = {var * var for var in range(1, 11)}
set2 = {i for i in range(1, 11) if i % 2 == 0}
print("Elements of set1 are:", set1)
print("Elements of set2 are:", set2)
print("Union operation:", set1 | set2)
print("Intersection operation:", set1 & set2)
print("Difference operation (set1 - set2):", set1 - set2)
print("Symmetric difference operation:", set1 ^ set2)
```

8.tuple

```
tuple1 = (1, 2, 3, 4, 5, 6, 7, 8, 9)
print("Elements of the tuple are:\n")
for i in range(len(tuple1)):
    print(tuple1[i])
find = int(input("Enter an element to search in the tuple: "))
try:
    index = tuple1.index(find)
    print("\nElement {} found at index {} in the tuple.\n".format(find, index))
except ValueError:
    print("\nElement {} not found in the tuple.\n".format(find))
print("Elements of the tuple in reverse order:\n", tuple1[::-1])
print("Elements from 3rd position to 7th position:", tuple1[2:7])
del tuple1
print("Tuple deleted.")
```

9.fibocii

```
def fibonacci(n):
    if n <= 1:
        return n
    else:
        return (fibonacci(n-1) + fibonacci(n-2))
number = int(input("Enter the length of the series: "))
print("The series is:")
for i in range(number):
    result = fibonacci(i)
    print(result)
```

```
a = int(input("Enter the value for a: "))
b = int(input("Enter the value for b: "))
try:
    c = a / b
except ZeroDivisionError:
    print("The value of 'b' should not be equal to 0. Please change the value for 'b'.")
    c = 0
print("The Result is:", c)
```