(i) Algorithm of Calculator

Step 1: Input numbers
Step 2: Exput num 1 and num 2.

SteP 2: set run=1.

Step 3: Refeat steps while run =1.

Step 4: Set long long Power=1.

Step 5: Switch for the value of opti-

Step6: If the user entered 1, then add num 1 and num Step 7: If the user entered 2, then subtract numl and

Step 8: If the user entered 3, then multiple numl and num:

Step9: If the user entered 4, then

IF num2 == 0 PRINT cannot divide by zero. ELSE

Divide num 1 and num 2.

step 10: If the user entered 5, then

IF Num1>num2

· PRINT numl is greater than num2.

ELSE

PRINT Numz is greater than num!

step 11: If the user entered 6, then

IF nam 1 / nam2

PRINT num 1, is less than num 2.

EISE

PRINT nums is less than num 1.

step 12: If the user entered 7, then

IF (num! == num2)

PRINT Both numbers are evua).

ELSE PRINT Both numbers are not equal.

step 13: If the user entered 8, then

IF num! = num2

PRINT Both numbers are not earnal.

PRINT Both numbers are equal.

- Step 14: If the user entered 9, then Print the average of numl and nums.
- step 15: If the user entered 10, then

 num2!=0 and Refeat this step

 untill while (num2!=0). set

 Power*=num1 and --num2. and

 Print Power of num1 Power num2.
- Step 16: It the user entered. 11, then run=0 and exit from the Program
- Step 17: If the user entered any number more than 11 then Print inPut Program.

 Program.