1.INTERCHANGE THE VALUES B/W A AND B.

```
REPORT  ZINTERCHANGE.
PARAMETERS : A TYPE I , B TYPE I.
NEW-LINE.
WRITE 'BEFORE CHANGE'.
WRITE : A , B.
A = A + B .
B = A - B.
A = A - B.
NEW-LINE.
WRITE 'AFTER CHANGE'.
WRITE : A , B.
```

2. REVERSE A NUMBERS

```
REPORT  ZNUM_REVERSE.
PARAMETERS : N TYPE I .
DATA : REM TYPE I , TOTAL TYPE I .
WHILE N GT 0 .
  REM = N MOD 10 .
  TOTAL = TOTAL * 10 + REM .
  N = N / 10 .
ENDWHILE.
WRITE TOTAL.
```

3. SUM OF DIGHTS

```
REPORT  ZSUMOFDIGHTS.
PARAMETERS : N TYPE I .
DATA : REM TYPE I , TOTAL TYPE I VALUE 0 .
WHILE N GT 0 .
  REM = N MOD 10 .
  TOTAL = TOTAL + REM .
  N = N / 10 .
ENDWHILE.
WRITE / TOTAL .
```

4. FIBONOCCI SERIES.

```
REPORT  ZFIBO.
DATA : A TYPE I VALUE 0,B TYPE I VALUE 1,C TYPE I.
PARAMETERS : N TYPE I.
N = N - 2.
WRITE : A , B.
WHILE  SY-INDEX LE N.
  C = A + B .
  WRITE : C.
  A = B. B = C.
ENDWHILE.
```

5. Nth FIBONOCCI NUMBER.

```abap
REPORT   ZNTH_FIBO.

DATA : A TYPE I VALUE 0,
       B TYPE I VALUE 1,
       C TYPE I.
PARAMETERS : N TYPE I.
DATA : NTH TYPE I .
NTH = N - 2.

WHILE SY-INDEX LT N.
  C = A + B .
  A = B .
  B = C .
  IF SY-INDEX EQ NTH.
 WRITE : N NO-GAP , 'th FIBONOCCI NUM IS ' , C.
  ENDIF.
ENDWHILE.
```

6. FACTORIAL

```abap
REPORT   ZFACTORIAL.
PARAMETERS : N TYPE I.
DATA : COUNT TYPE I VALUE 1,
       FACT TYPE I VALUE 1.
   WHILE COUNT LE N.
     FACT = FACT * COUNT.
     COUNT = COUNT + 1 .
   ENDWHILE.

WRITE : 'THE FACTORIAL OF', N NO-GAP, 'IS', FACT.
```

7. PRIME NUMBER.

```abap
REPORT   ZPRIME.

PARAMETERS : N TYPE I.
DATA : I TYPE I VALUE 1,
       COUNT TYPE I VALUE 0, TEMP TYPE I.

WHILE I LE N .
  TEMP = N MOD I .
  IF  TEMP EQ 0.
    COUNT = COUNT + 1.
  ENDIF.
  I = I + 1.
ENDWHILE.
```

```abap
IF COUNT EQ 2.
  WRITE : / N , 'IS PRIME NUMBER'.
  ELSE.
   WRITE : / N , 'IS  NOT PRIME NUMBER'.
ENDIF.
```