17th Jan Assignment

Question:- Take the input from the user and check if its even positive, even negative, odd positive or odd negative

- Algorithm
1. Take input num
2. Check if num is greater or equal to zero and divisible by 2
3. Print positive even
4. else Print positive odd
5. If num is less than zero and divisible by 2.
6. Print negative even
7. else Print negative odd

- Pseudo code
```
if (num >= 0)
{ if (num %. 2 == 0)
    {Print ("even positive")}
else
    Print "odd positive"
}
else if (num < 0)
{ if (num %. 2 == 0)
    {Print ("even negative")
else
    {Print ("odd negative")}
}
```

Flow chart

```
        ( Start )
            |
            v
       / Input num /
            |
            v
         /‾‾‾‾‾\
  True  < if num>0 >  False
   /     _____/      \
  /          |           \
  v          False        v
/‾‾‾‾‾\                /‾‾‾‾‾‾‾‾\
< if num %  >        <  else if  >  False
< 2==0    >          <  num<0   >
 _____/            _____/
True  |  False      True |
      |                  |
  [Even      [Odd     [Even      [Odd
  Positive]  Positive] Negative]  Negative]
      |         |         |          |
      |         |         |          |
      +---------+----+----+----------+
                     |
                     v
                 ( STOP )
```

Question - 2
- Print the table of any number using
  for loop)

- Algorithm
1 Take input num.
2 Variable 'a'
3 Run into loop from 1 to 10
4 Print Num *(a)

- Psudo code
   input num
   int a,
   for (a=1; a <=10; a=a^1)
      { print (num*a); }

* Flowchart

Start
  ↓
Input num
  ↓
a <= 10   False
  ↓ True
num * a
  ↓
a = a + 1

STOP