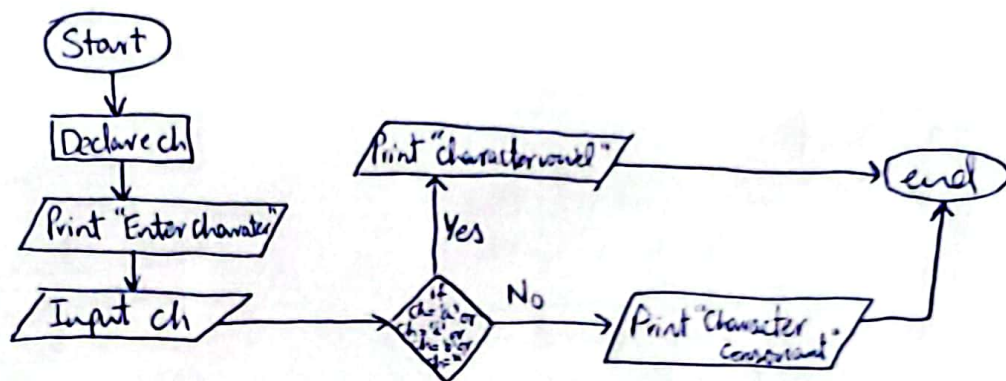


Q#1:-

```

1.0 Start
2.0 Declare ch
3.0 Print "Enter a character"
4.0 Input ch
5.0 if (ch='a') OR (ch='e') OR (ch='i') OR (ch='o') OR (ch='u') then
    5.1 Print "Character is vowel"
6.0 else
    6.1 Print "Character is consonant"
7.0 Endif
8.0 end.

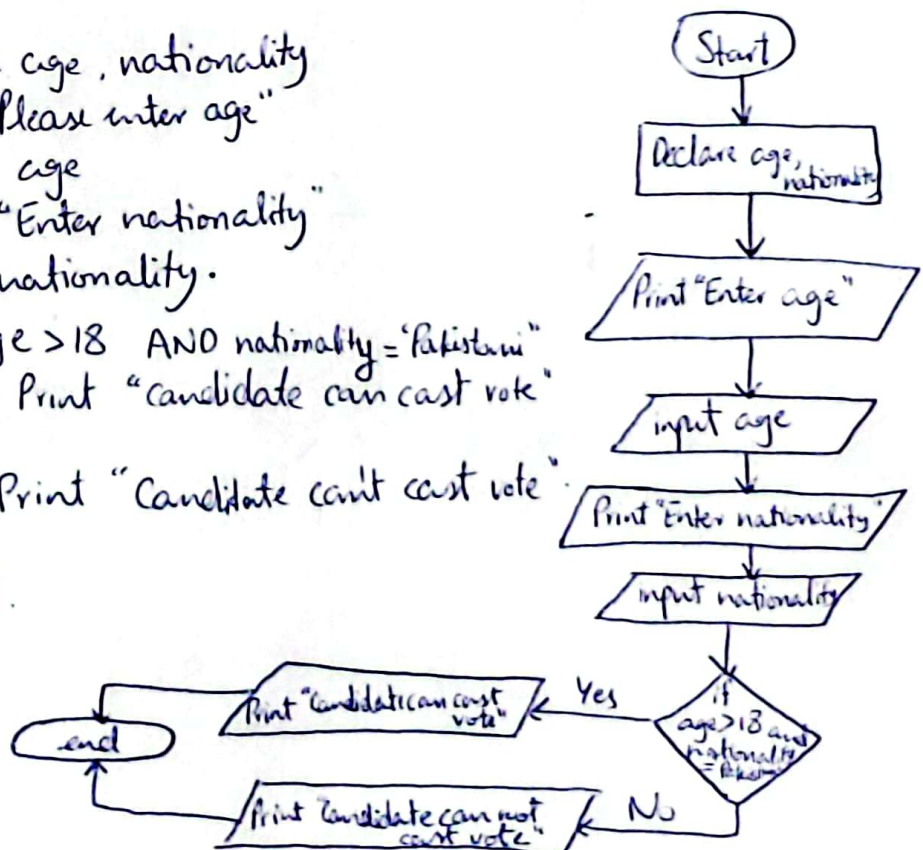
```

Q#2:-

```

1.0 Start
2.0 Declare age, nationality
3.0 Print "Please enter age"
4.0 Input age
5.0 Print "Enter nationality"
6.0 Input nationality.
7.0 if age > 18 AND nationality = 'Pakistani'
    7.1 Print "candidate can cast vote"
8.0 else
    8.1 Print "Candidate can't cast vote"
9.0 end if
10.0 end.

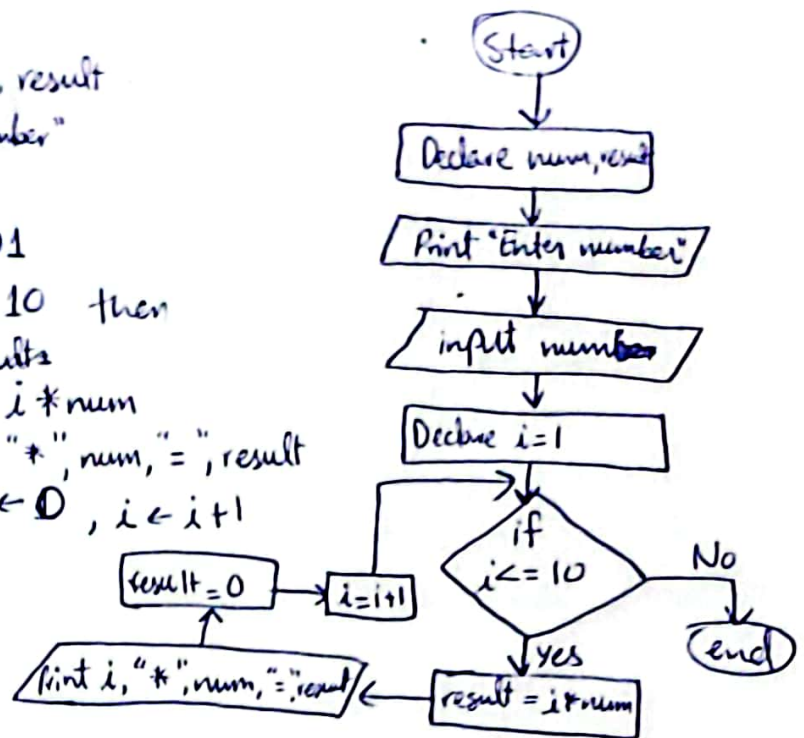
```



Q#3.-

```

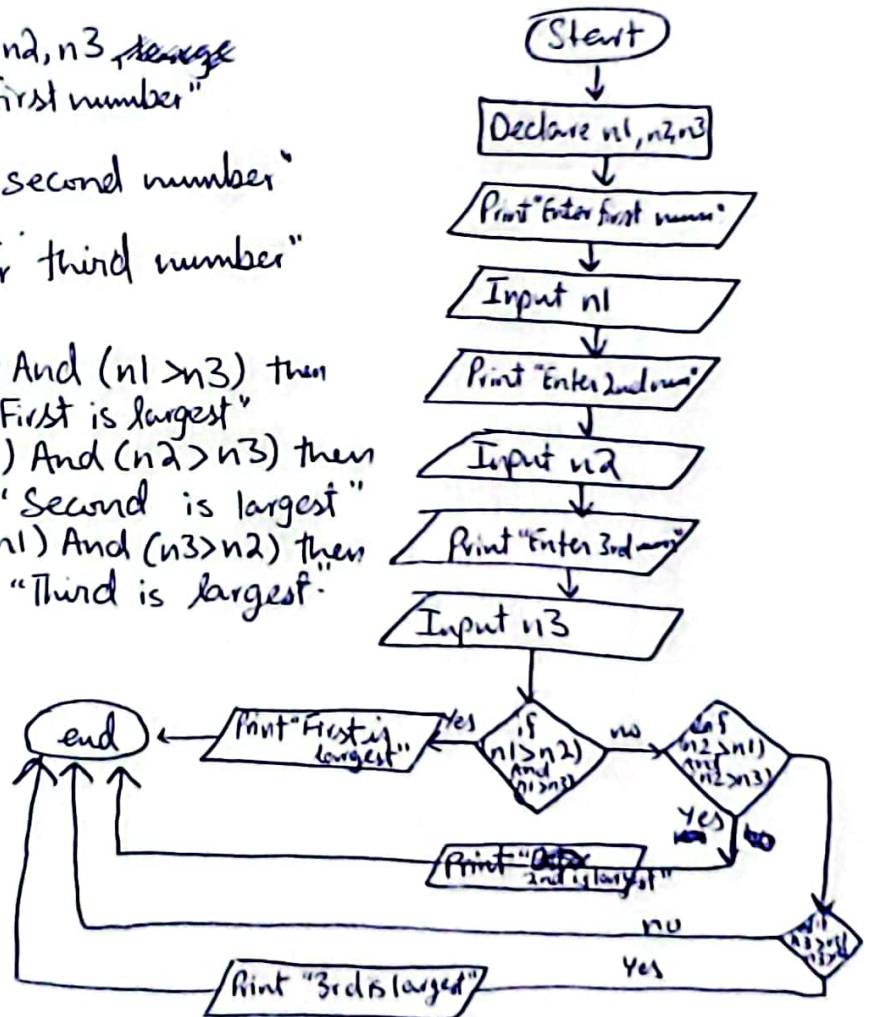
1.0 Start
2.0 Declare num, result
3.0 Print "Enter number"
4.0 Input num
5.0 Declare i ← 1
6.0 while i ≤ 10 then
    6.1 result ← i * num
    6.2 Print i, "*", num, "=", result
    6.3 result ← 0, i ← i + 1
7.0 endwhile
8.0 end.
    
```



Q#4.-

```

1.0 Start
2.0 Declare n1, n2, n3
3.0 Print "Enter first number"
4.0 Input n1
5.0 Print "Enter second number"
6.0 Input n2
7.0 Print "Enter third number"
8.0 Input n3
9.0 if (n1 > n2) And (n1 > n3) then
    9.1 Print "First is largest"
10.0 elseif (n2 > n1) And (n2 > n3) then
    10.1 Print "Second is largest"
11.0 else if (n3 > n1) And (n3 > n2) then
    11.1 Print "Third is largest"
12.0 endif
13.0 end.
    
```



Q#5:- 1.0 Start

2.0 Print "The first ten iteger numbers are starting from zero are: "

3.0 Declare $n=0$

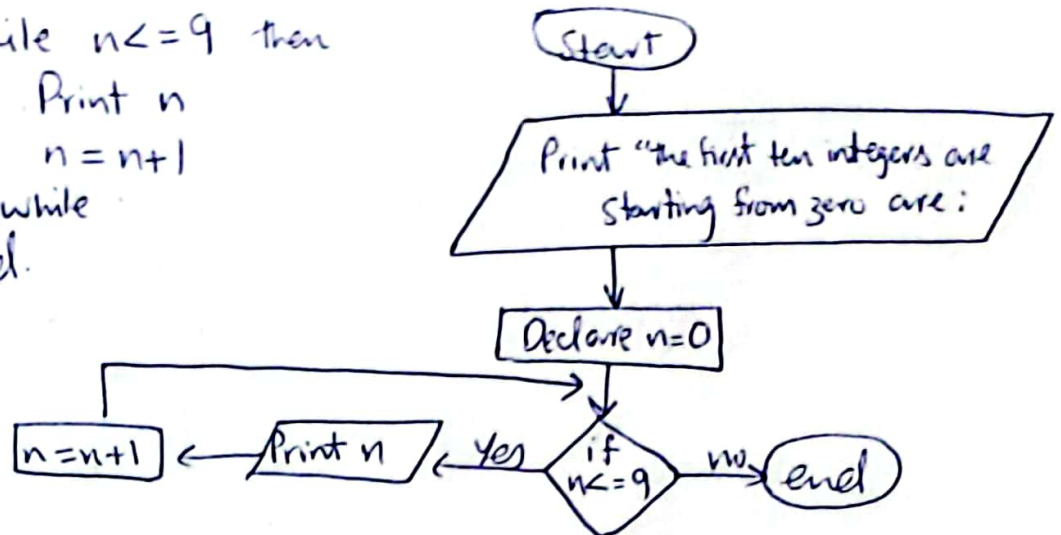
4.0 while $n \leq 9$ then

4.1 Print n

4.2 $n = n + 1$

5.0 endwhile

6.0 endl.



Q#6:-

1.0 Start

2.0 Declare $n=0, \text{sum}, \text{avg}$

3.0 while $n \leq 9$ then

3.1 $\text{sum} = \text{sum} + n$

3.2 $n = n + 1$

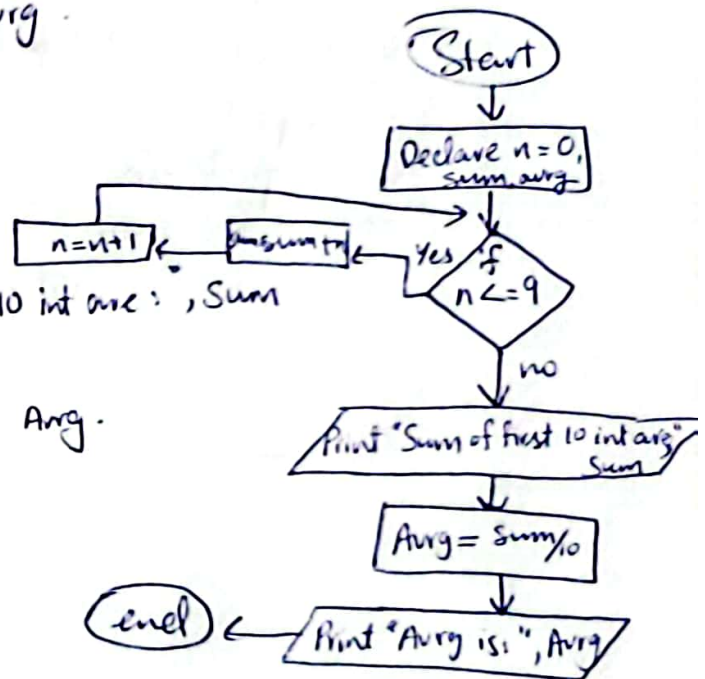
4.0 endwhile

5.0 Print "Sum of first 10 int are: ", Sum

6.0 $\text{Avg} = \frac{\text{Sum}}{10}$

7.0 Print "Avg is: ", Avg.

8.0 endl.



Q#7:- 1.0 Start

2.0 Declare ~~fact~~ num

3.0 Print "Enter number "

4.0 Input num

5.0 Declare $\text{fact} = \text{num} - i, i = 1$

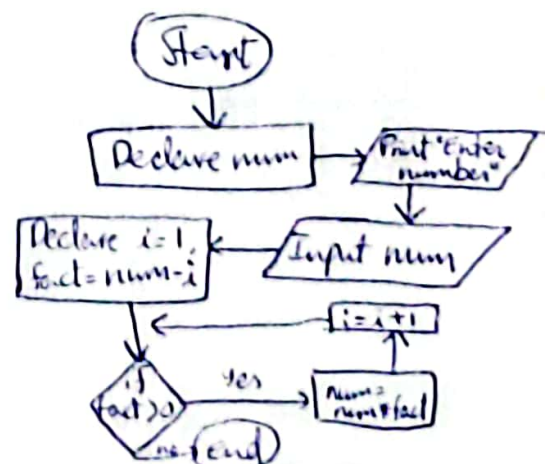
6.0 while $\text{fact} > 0$ then

6.1 ~~increase~~ num = num * fact

6.2 $i = i + 1$

7.0 endwhile

8.0 endl



Q#8:- 1.0 Start

2.0 Declare base, power, ^{answer=1} ~~answer~~, i=1

3.0 Input base

4.0 Input power

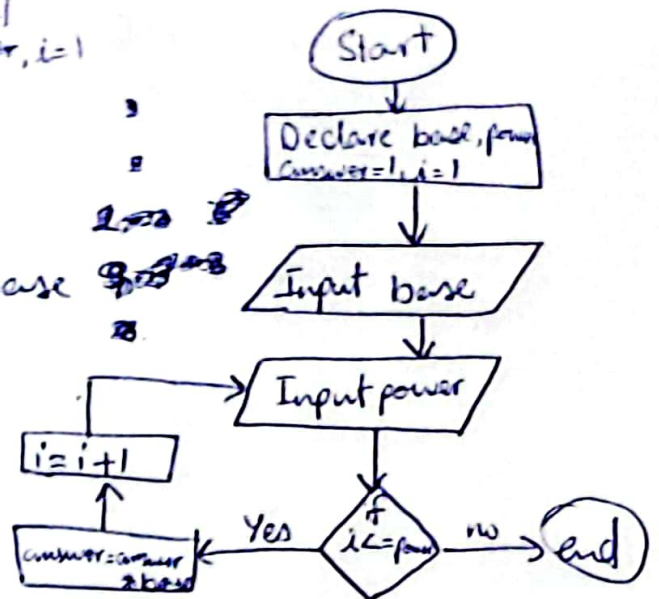
5.0 while i <= power then

5.1 ~~answer = answer * base~~ ^{answer = answer * base}

5.2 i = i + 1

6.0 endwhile

7.0 end



Q#9:-

1.0 Start

2.0 Declare n1, n2, mul=0, ~~i=1~~

3.0 Input n1

4.0 Input n2

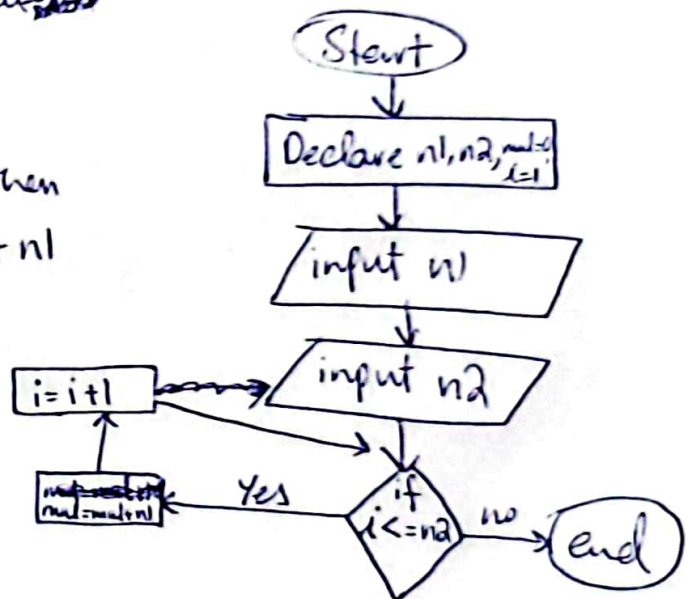
5.0 while i <= n2 then

5.1 mul = mul + n1

5.2 i = i + 1

6.0 endwhile

7.0 end



Q#10:-

1.0 Start

2.0 Declare n, i=1

3.0 Print "Enter range of numbers"

4.0 Input n

5.0 while i <= n then

5.1 Print "normal number", i

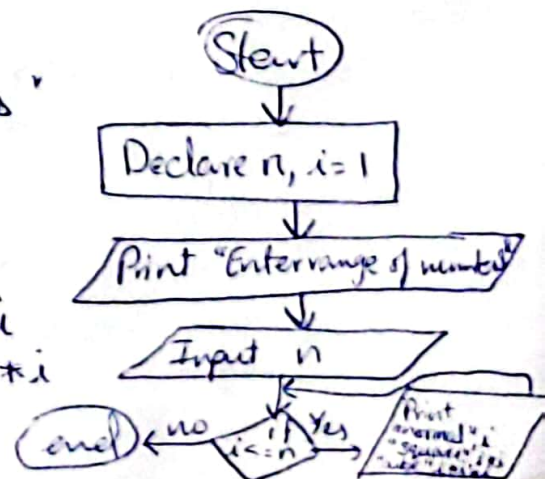
5.2 Print "Square", i * i

5.3 Print "Cube", i * i * i

5.4 i = i + 1

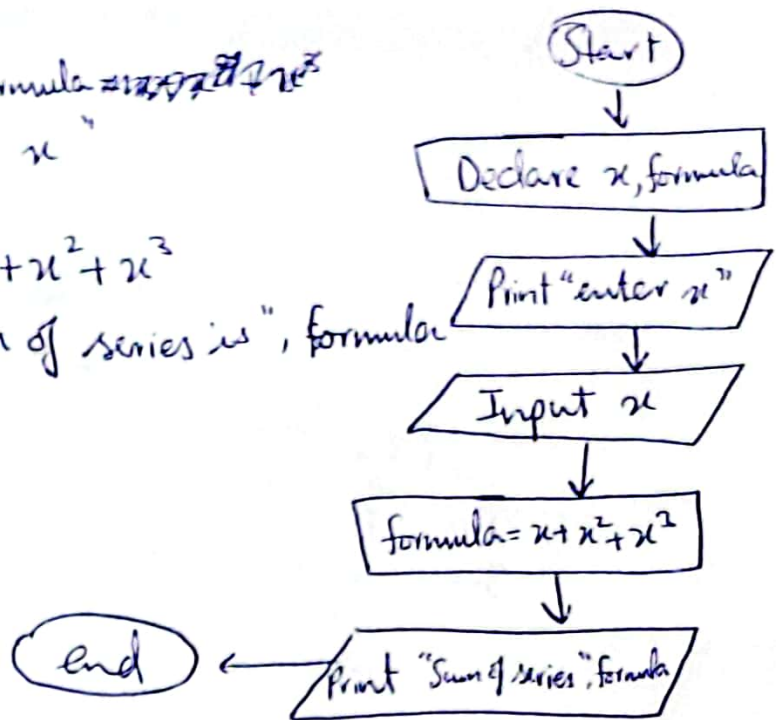
6.0 endwhile

7.0 end



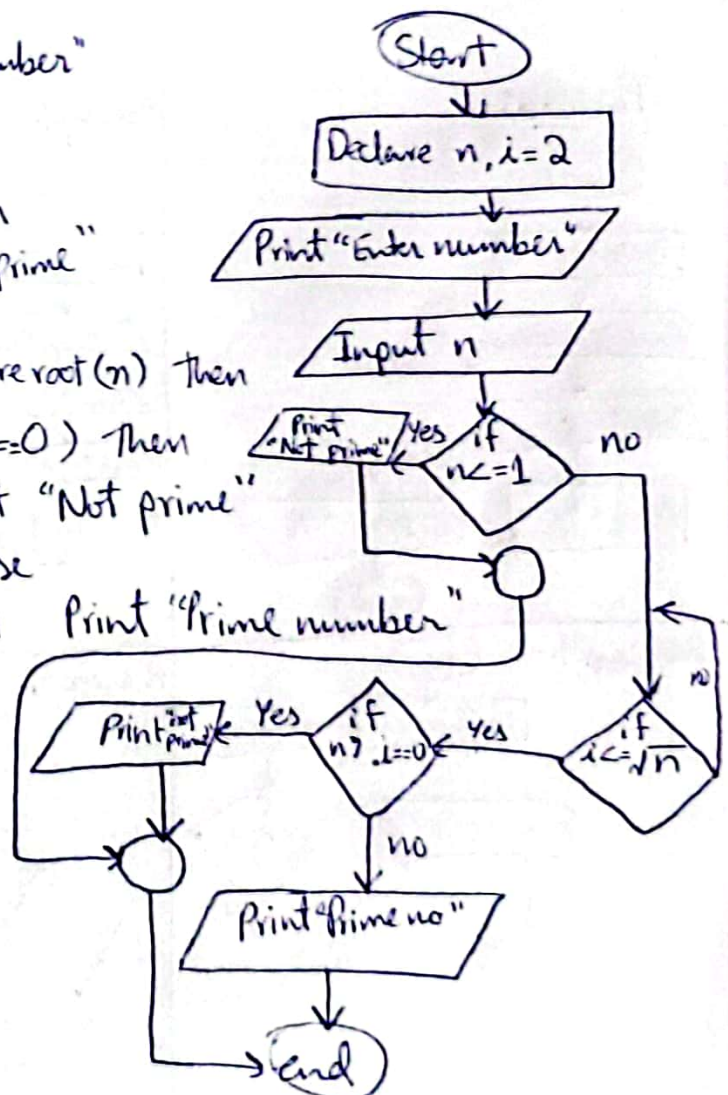
Q#11:-

- 1.0 Start
- 2.0 Declare x , formula ~~$= x + x^2 + x^3$~~
- 3.0 Print "enter x "
- 4.0 Input x
- 5.0 formula $= x + x^2 + x^3$
- 6.0 Print "Sum of series is", formula
- 7.0 end



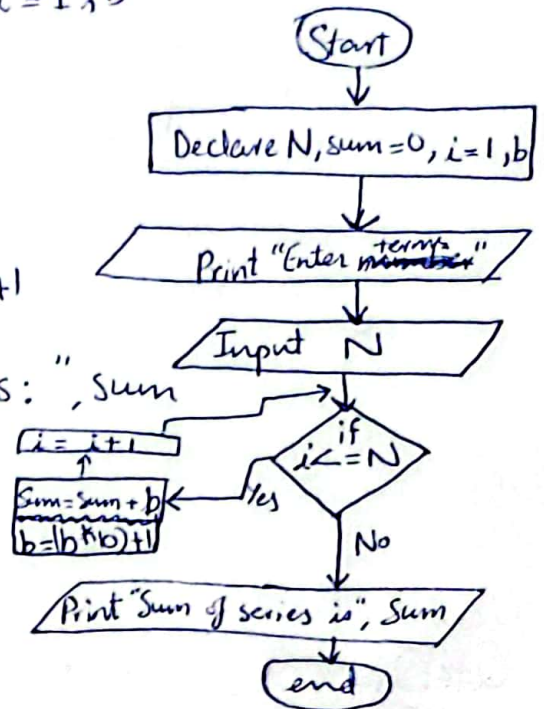
Q#12:-

- 1.0 Start
- 2.0 Declare $n, i=2$
- 3.0 Print "Enter number"
- 4.0 Input n
- 5.0 If $n \leq 1$ then
- 5.1 Print "Not prime"
- 6.0 end if
- 7.0 While $i \leq \text{square root}(n)$ then
- 7.1 if $(n \% i == 0)$ then
- 7.1.1 Print "Not prime"
- ~~7.2~~ 7.2.1 ~~end if~~ else
- 7.2.1 Print "Prime number"
- 7.3 end if
- 8.0 end while
- 9.0 end.

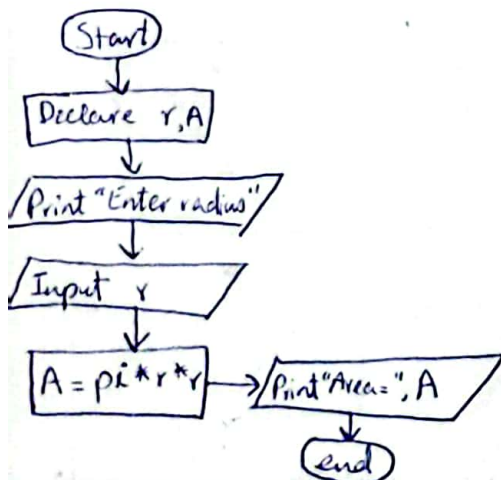


Q#131-

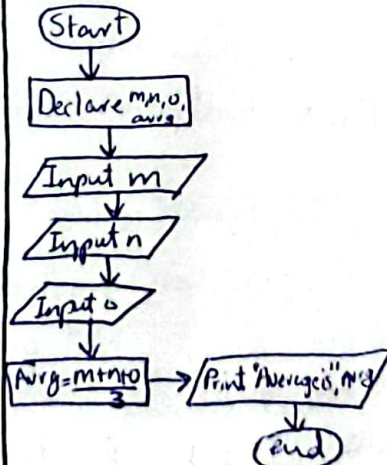
- 1.0 Start
- 2.0 Declare $N, \text{sum} = 0, i = 1, b$
- 3.0 Print "Enter terms"
- 4.0 Input N
- 5.0 while $i \leq N$ then
 - 5.1 $\text{sum} = \text{sum} + b$
 - 5.2 $b = (b * 10) + 1$
 - 5.3 $i = i + 1$
- 6.0 endwhile
- 7.0 Print "Sum of series is: ", sum
- 8.0 end



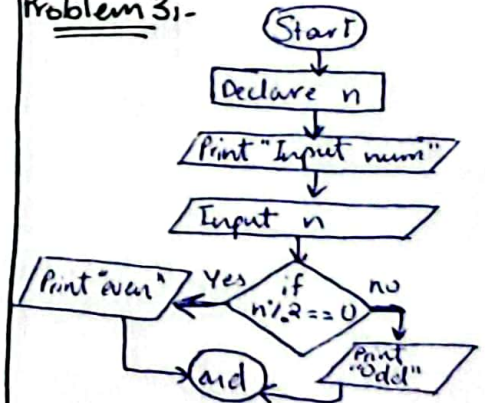
Problem#1-



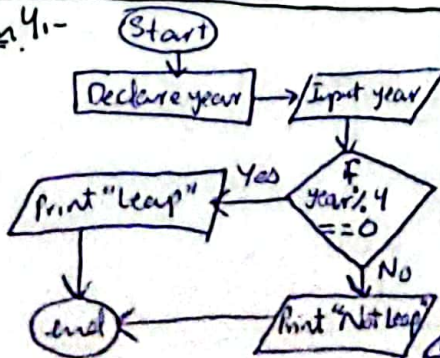
Problem2-



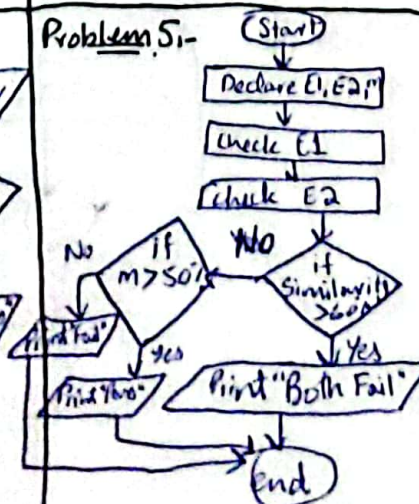
Problem3-



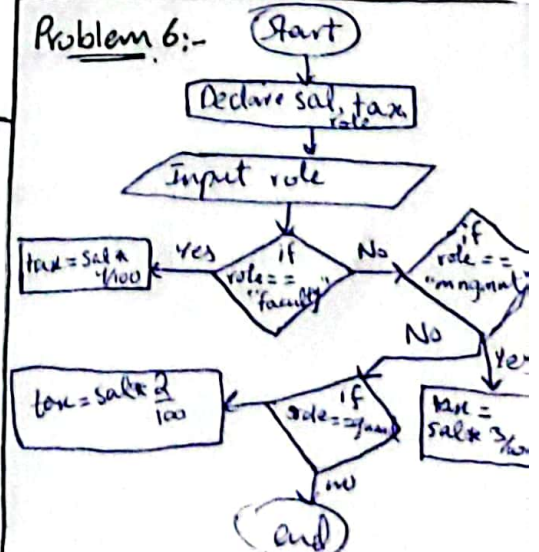
Problem4-



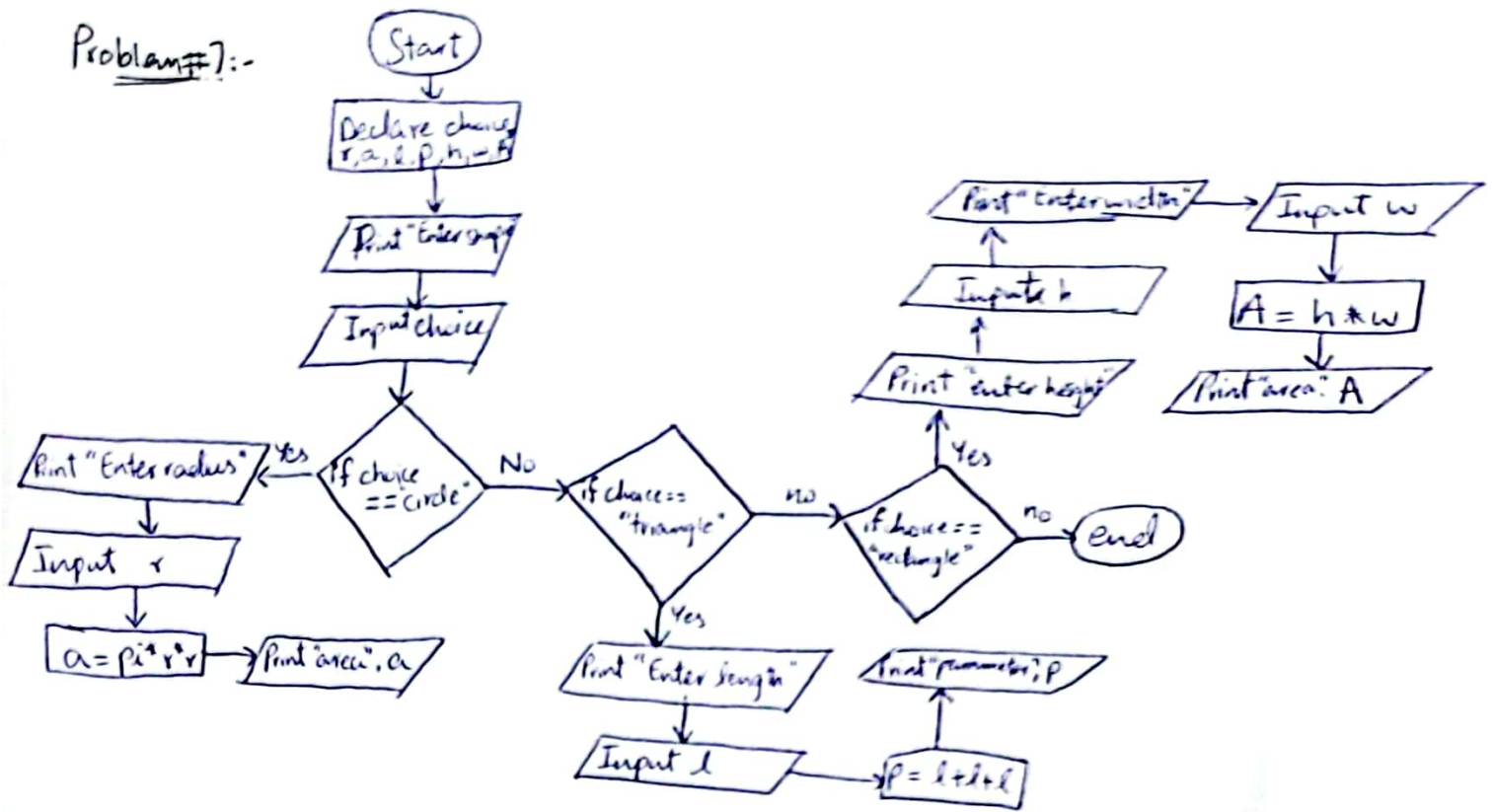
Problem5-



Problem6:-



Problem 7:-



Problem 8:-

