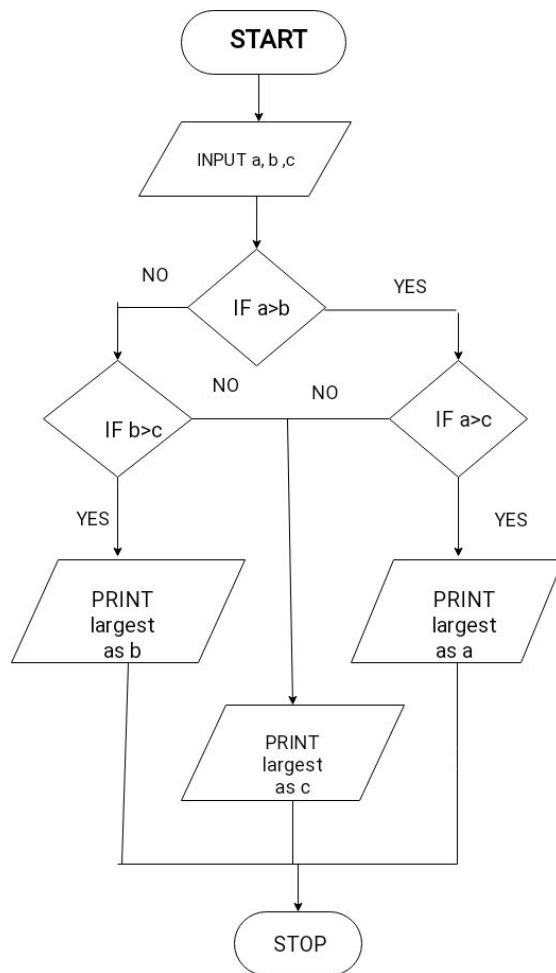


Algorithm & flowchart

Q1. A) ALGORITHM

- 1) START
- 2) READ a, b, c
- 3) IF $a > b$ THEN go to step 5
ELSE
go to step 4
ENDIF
- 4) IF $b > c$ THEN
PRINT b is largest
ELSE
PRINT b is largest
ENDIF
go to step 6
- 5) IF $a > c$ THEN
PRINT a is largest
ELSE
PRINT c is largest
ENDIF
- 6) STOP

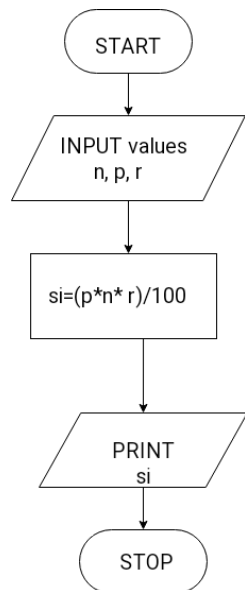
B) FLOWCHART



2. A) ALGORITHM

- 1) START
 - 2) INPUT values of p, n, r
 - 3) $si = (p \cdot n \cdot r) / 100$
 - 4) PRINT so
 - 5) STOP
- (Where, p : Principle Amount,
n : Time in Years,
r : % Annual Rate of Interest ,
si : Simple Interest)

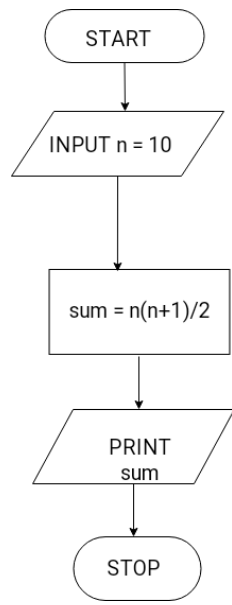
B) FLOWCHART



3. A) ALGORITHM

- 1) START
- 2) INPUT n =10
- 3) $\text{sum} = n(n+1)/2$
- 4) PRINT sum
- 5) STOP

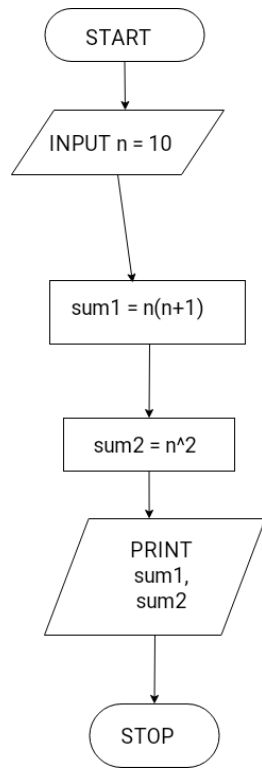
B) FLOWCHART



Q4. A) ALGORITHM

- 1) START
- 2) INPUT n = 10
- 3) $\text{sum1} = n(n+1)$
 $\text{sum2} = n^2$
- 4) PRINT sum1 , sum2
- 5) STOP

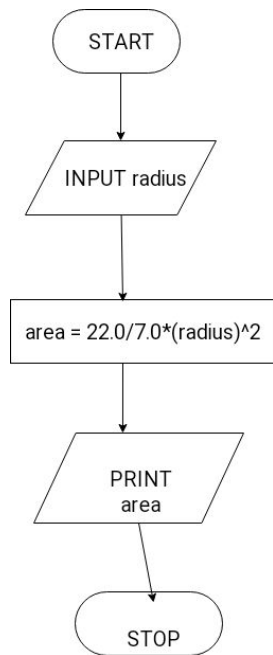
B) FLOWCHART



Q5.A) ALGORITHM

- 1) START
- 2) INPUT radius
- 3) $\text{area} = 22.0/7.0 * (\text{radius})^2$
- 4) PRINT area
- 5) STOP

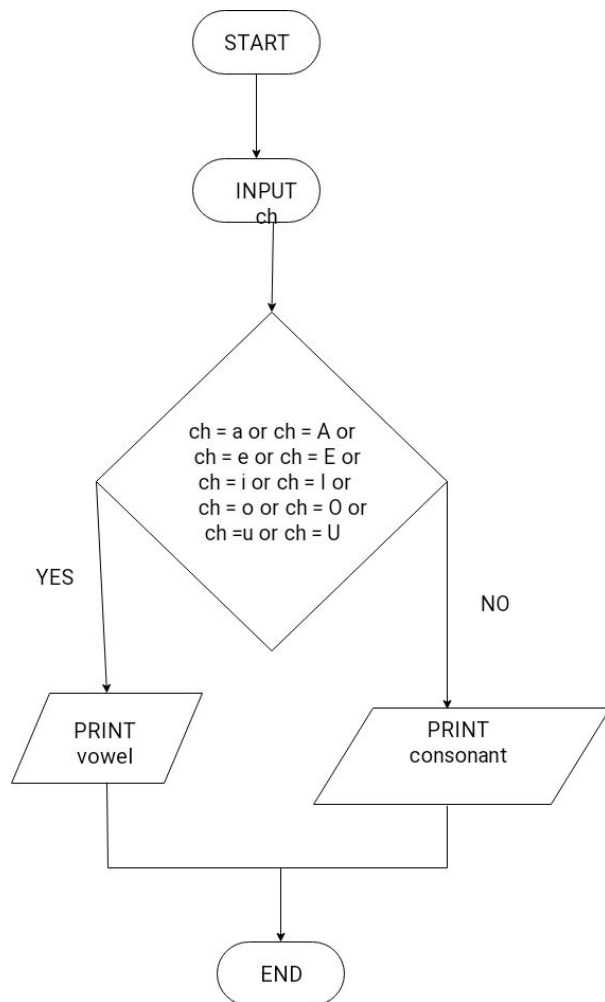
B) FLOWCHART



Q6.A) ALGORITHM

- 1) START
- 2) INPUT ch
- 3) IF (ch = a or ch = A or
ch = e or ch = E or
ch = i or ch = I or
ch = o or ch = O or
ch = u or ch = U)
PRINT vowel
ELSE
PRINT consonant
ENDIF
- 5) STOP

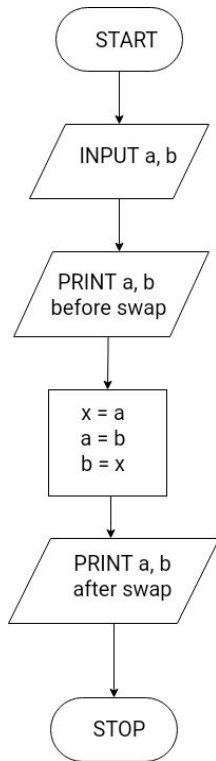
B) FLOWCHART



Q7. A) ALGORITHM

- 1) START
- 2) INPUT a, b
- 3) PRINT a, b (before swap)
- 4) $x = a$
- 5) $a = b$
- 6) $b = x$
- 7) PRINT a, b (after swap)
- 8) STOP

B) FLOWCHART

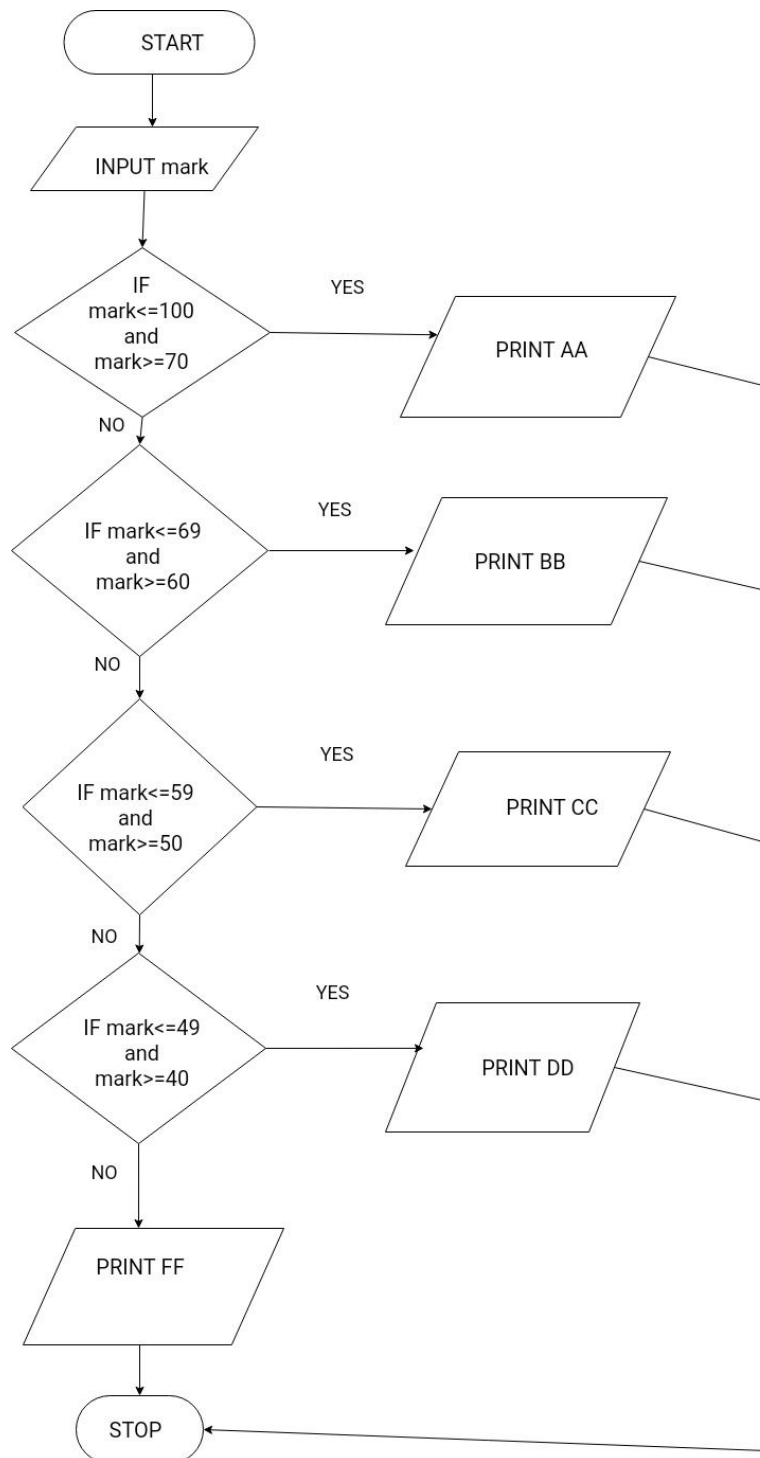


Q8. A) ALGORITHM

- ```
1) START
2) INPUT mark
3) IF mark<=100 and mark>=70
 PRINT AA
 ELSE
 IF mark<=69 and mark>=60
 PRINT BB
 ELSE
 IF mark <=59 and mark>=50
 PRINT CC
 ELSE
 IF mark<=49 and mark>=40
 PRINT DD
 ELSE
 PRINT FF
4) STOP
```



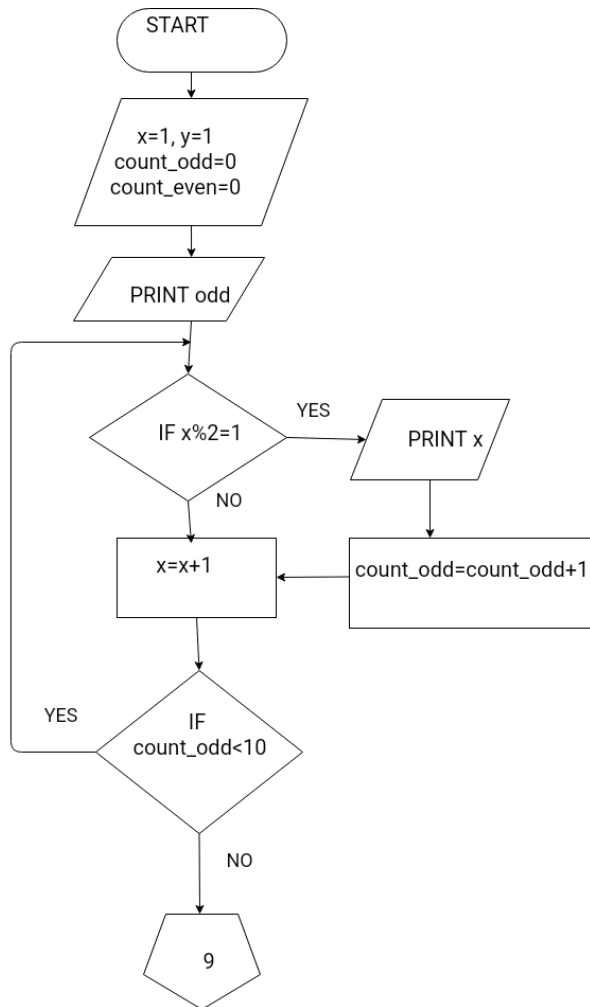
## B) FLOWCHART

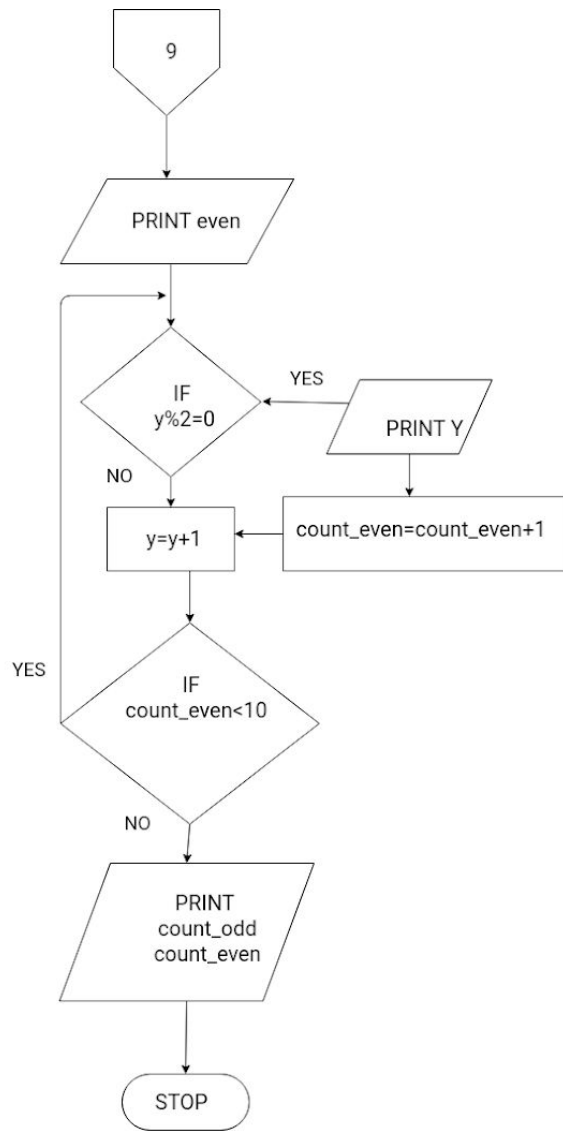


## Q9.A) ALGORITHM

- 1) START
- 2) INPUT int x=1, y=1  
count\_odd=0  
count\_even=0  
count =0
- 3) PRINT odd
- 4) WHILE count\_odd<10  
(IF x%2=1  
THEN PRINT x  
count\_odd=count\_odd +1  
x=x+1  
ELSE x=x+1  
ENDIF)
- 5) PRINT even
- 6) WHILE count\_even<10  
( IF y%2=0  
THEN PRINT y  
count\_even = count\_even+1  
y=y+1  
ELSE y=y+1  
ENDIF)
- 7) PRINT count\_odd and count\_even
- 8) STOP

## B) FLOWCHART





## Q10.A) ALGORITHM

- 1) START
- 2) INPUT
- 3) INPUT
- 4) WHILE  $i \leq j$   
    DO  
         $prod = prod * i$   
         $i = i + 1$   
    DONE
- 5) PRINT factorial of j is prod
- 6)  $j = j + 1$
- 7) IF  $j \leq 5$   
    THEN go to step 3
- 8) STOP

## B) FLOWCHART

