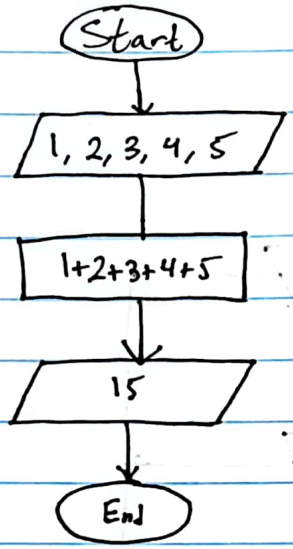
Abdullah Farhan
24K-3106

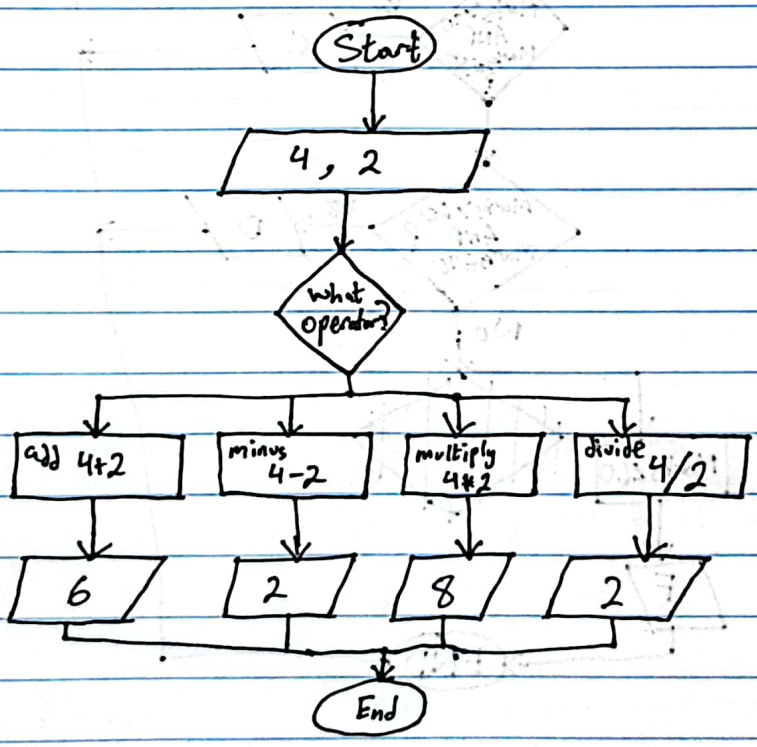
Date:

Flowcharts

Q1

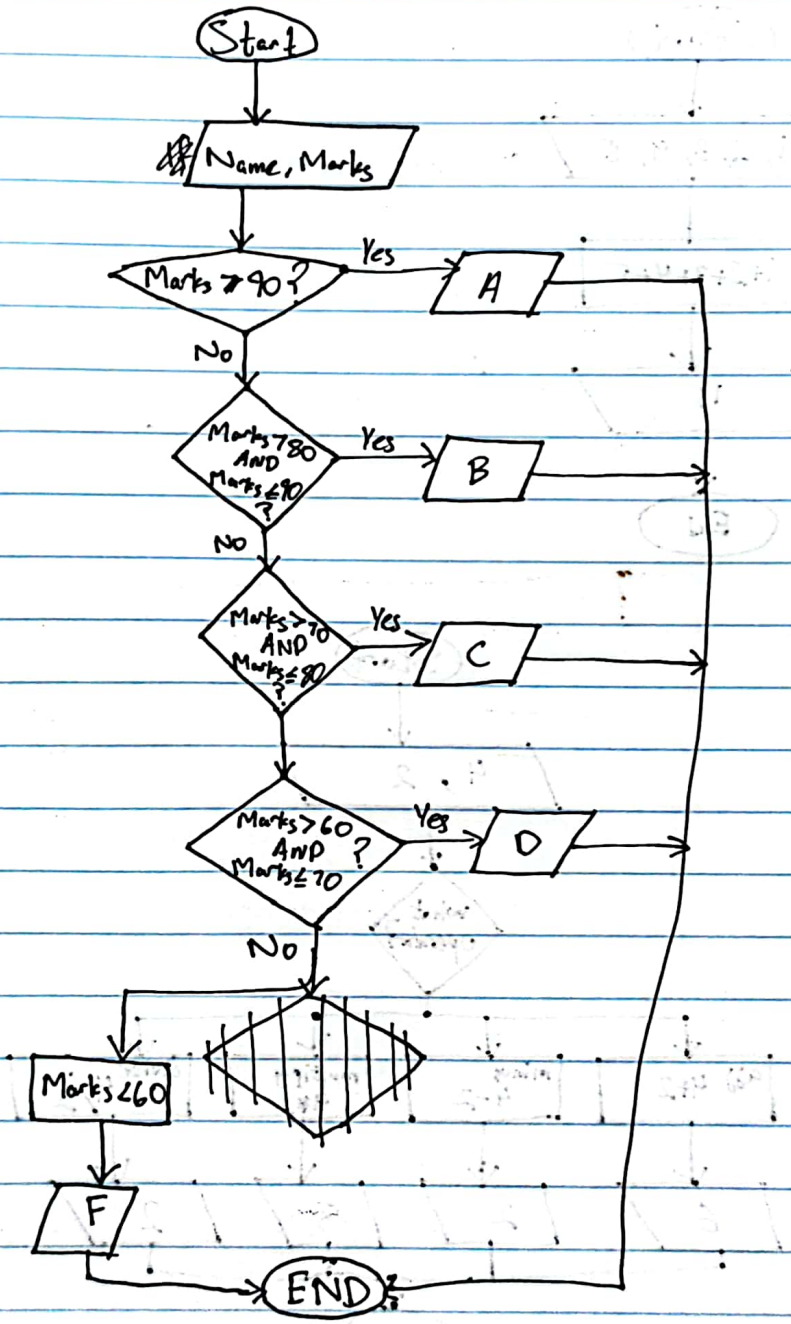


Q2



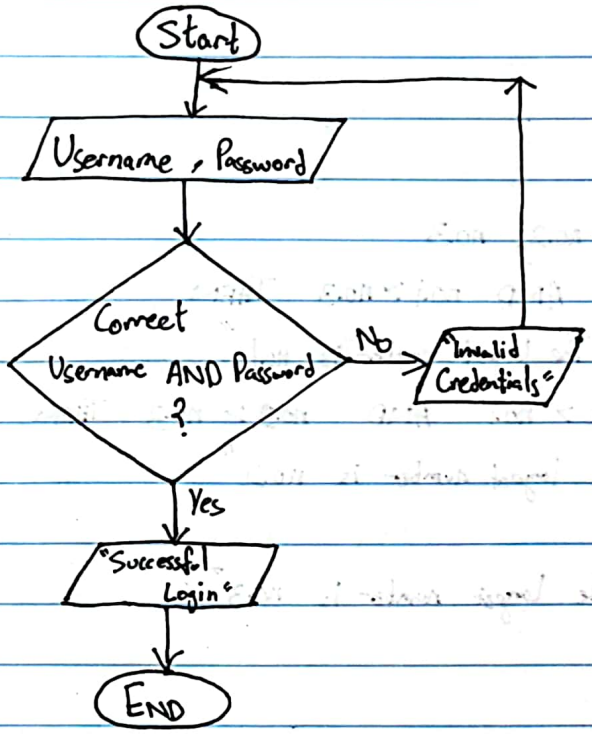
Date:

Q3

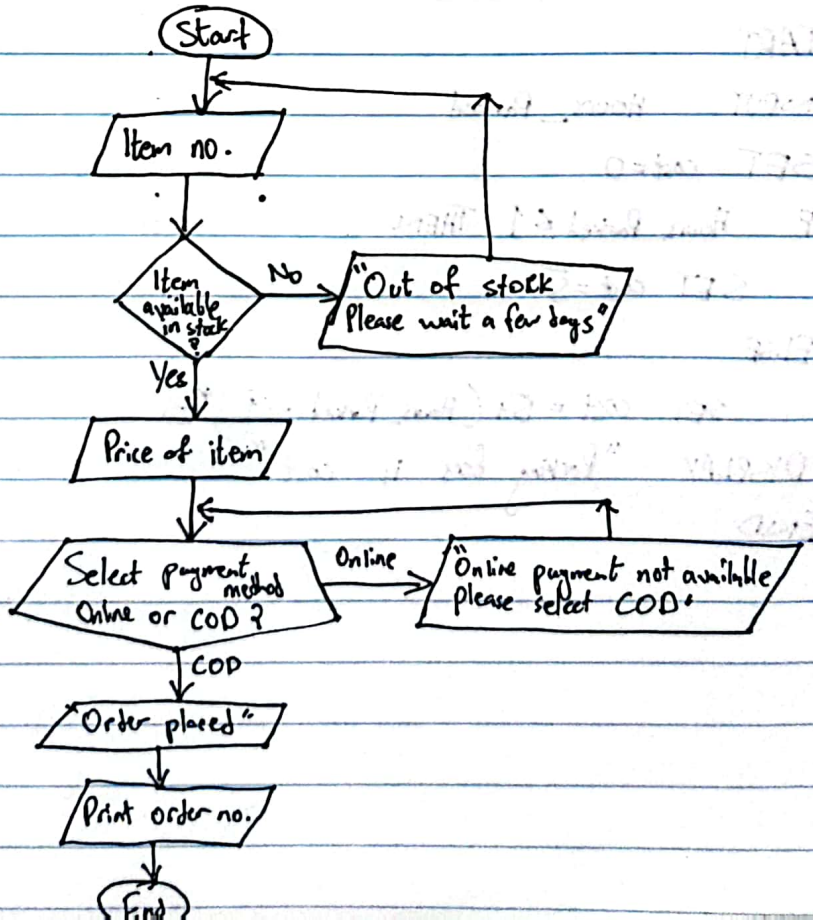

Start
Name, Marks
Marks ≥ 90 ?
Yes
A
No
Marks ≥ 80 AND Marks ≤ 90 ?
Yes
B
No
Marks ≥ 70 AND Marks ≤ 80 ?
Yes
C
Marks ≥ 60 AND Marks ≤ 70 ?
Yes
D
No
Marks < 60
F
END

Date:

Q4


Start
Username , Password
Correct Username AND Password ?
No
"Invalid Credentials"
Yes
"Successful Login"
END

Q5


Start
Item no.
Item available in stock ?
No
"Out of stock Please wait a few days"
Yes
Price of item
Select payment method Online or COD ?
Online
"Online payment not available Please select COD"
COD
"Order placed"
Print order no.
End

Date:

Pseudocode

Q1

```
1. START
2. INPUT no.1, no.2, no.3
3. IF no.1 > no.2 AND no.1 > no.3 THEN
4.         Print "The largest number is no.1"
5.    ELSE IF no.2 > no.1 AND no.2 > no.3 THEN
6.         Print "The largest number is no.2"
7.    ELSE
8.         Print "The largest number is no.3"
9.  END
```

Q2

```
1. START
2. INPUT Hours_Parked
3. SET cost = 0
4. IF Hours_Parked ≤ 1 THEN
5.     SET cost = 5
6. ELSE
7.     SET cost = 5 + (Hours_Parked - 1) * 3
8. DISPLAY "Parking fees is cost"
9. END
```

Date:

Q3

1. START
2. SET Total_cost = 0
3. REPEAT
4. INPUT Item_cost
5. SET Total_cost = Total_cost + Item_cost
6. UNTIL all INPUTS are taken
7. IF Total_cost > 100 THEN
8. SET Newcost = Total_cost * (10/100)
9. Print newcost
10. ELSE Print Total_cost
11. END

Q4

1. START
2. INPUT no.1
3. IF no.1/2 == 0 THEN
4. Print " no.1 is even "
5. ELSE Print " no.1 is odd "
6. END

Date:

ALGORITHM

Q1.

- Ask user to enter no. of days they attended
- Set total days of a semester = 100
- Set percentage to: no. of days attended / total days of a semester
- If percentage below 75 then display a warning for user.
- Else display appreciation letter for user.

Q2

- Ask employee to enter no. of hours worked
- Set payrate to x rupees per hour.
- Set gross pay to: no. of hours worked * payrate.
- Display gross pay for employee.

Q3-

- Enter no.1
- Enter no.2
- Enter operator required from: addition, subtraction, multiplication, division, percentage
- If addition required then,
  set result no.1 + no2
- Else if subtraction required then,
  set result no.1 − no.2
- Else if multiplication required then,
  set result no.1 * no.2
- Else if division required then,
  set result no.1 / no.2
- Else set result (no.1/no.2) * 100 OR no.1 % no.2
- Display result.

Date:

Q4

- Enter no. of items
- Enter price of each item
- Set totalcost to sum of price of all items
- Ask for tip
- If agreed to tip then set new cost to (totalcost/100) * 15
  And display new cost
- Else display total cost

Q5

- Input marks of student in percentage
- if marks greater than equal to 90
  Display Grade A
- Else if marks between 70 and 89 inclusive
  Display Grade B
- Else Display Grade C