

1 *1st March 2022 (Home work)

2

3 Question 1. Write an algorithm or flow chart to determine a student final grade &
indicate

4 whether he is passing or failing. The Final grade is calculated
5 as the average of 4 subject Physics,chemistry,bio & maths. Passing marks
6 are 40.

7 Solution-

8

9 STEP 1 : Start

10 STEP 2 : Input Marks of Physics,Chemistry,Bio,Mathematics

11 STEP 3 : Check if physics marks \geq 40

12 chemistry marks \geq 40

13 Bio marks \geq 40

14 Mathematics \geq 40

15 Print Pass

16 else

17 print Fail

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19 STEP 4 : Add Marks of physics,chemistry,bio,Mathematics

20 STEP 5 : Divide total marks/100 * 100

21 STEP 6 : Print percentage

22 STEP 7 : Stop

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29 Question 2. If we have to post a letter write Algo or FC.

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31 Solution-

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33 STEP 1 : Start

34 STEP 2 : Input a message

35 STEP 3 : Input Reciever's Address details

36 STEP 4 : Input Sender's Adress details

37 STEP 5 : Paste Stamp

38 STEP 6 : Visit Post office and check

39

40 if

41 It's working then post.

42

43 else

44 try on another day

45

46 STEP 6 : Stop

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50 Question 3. Write an Algo or FC to catch a school bus.

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52 Solution-

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54 Step 1 : Start

55 Step 2 : Get ready and check for bus arrival time

56 Step 3 : If its on time

57 leave the home

58 Else

59 Wait until its arrival time is \leq 5mins

60

61 Step 4 : Catch the school bus

62 Step 5 : Stop

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66 Question 4. Write an Algo or FC for getting married.

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68 Solution-

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70 Step 1 : Start

71 Step 2 : Sign up on marriage website

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72 Step 3 : Create profile
73 Step 4 : Input preferences for partner
74 Step 5 : if matched
75           then share contact details
76           else
77           look for other one
78
79 Step 6 : Stop
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83 =====
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85 Question : Define Class, Data member & Member function of soccer player
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88 Solution-
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90 Class : SoccerPlayer
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91
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92 Data member : Name
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93             Jersey no.
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```
94             Age
```

```
95             Height
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```
96             weight
```

```
97             Physique
```

```
98             position
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100
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101 Member function : getstatistics()
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