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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>=40
12         chemistry marks>=40
13         Bio marks>=40
14         Mathematics>=40
15     Print Pass
16     else
17     print Fail
18
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
23
24
25
26
27
28
29 Question 2. If we have to post a letter write Algo or FC.
30
31 Solution-
32
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
47
48
49
50 Question 3. Write an Algo or FC to catch a school bus.
51
52 Solution-
53
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 <= 5mins
60
61 Step 4 : Catch the school bus
62 Step 5 : Stop
63
64
65
66 Question 4. Write an Algo or FC for getting married.
67
68 Solution-
69
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
80
81
82
83 =====
84 =
85 Question : Define Class, Data member & Member function of soccer player
86
87
88 Solution-
89
90 Class : SoccerPlayer
91
92 Data member : Name
93             Jersey no.
94             Age
95             Height
96             weight
97             Physique
98             position
99
100
101 Member function : getstatistics()
102
103
```