Read\_Order

OutOfStock

NO

YES

YES

**Is product**

**Available?**

Process\_Order

Update\_Inv

Calc\_Order

Confirm\_Order

Dispatch

**QUESTION 1 OF PSEUDOCODE**

**START**

**INPUT NUM**

**VAL 🡨 NUM MOD 5**

**IF VAL = 0**

**THEN**

**OUTPUT ”THE NUMBER IS A MULTIPLE OF 5”**

**ELSE**

**OUTPUT ”IT IS NOT A MULTIPLE OF 5”**

**END**

**QUESTION 2 OF PSEUDOCODE**

**START**

**INPUT CHARACTER**

**IF CHARACTER >=“A” AND CHARACTER <= “Z”**

**THEN**

**OUTPUT “YOUR CHARACTER IS UPPER CASE”,CHARACTER**

**ELSE**

**OUTPUT “YOUR CHARACTER IS LOWER CASE”,CHARACTER**

**ENDIF**

**END**

**QUESTION 3 OF PSEUDOCODE**

**START**

**INPUT NUM1, NUM2**

**INPUT OPERATOR**

**ANSWER 🡨0**

**IF OPERATOR = “+”**

**THEN**

**OUTPUT (NUM1 + NUM2)**

**ELSE**

**OUTPUT (NUM1 \* NUM2)**

**ENDIF**

**END**

**QUESTION 4 OF PSEUDOCODE**

**START**

**INPUT NUM**

**IF NUM > 0**

**THEN**

**OUTPUT”NUM IS POSITIVE”**

**ELSE IF NUM < 0**

**THEN**

**OUTPUT”NUM IS NEGATIVE”**

**ELSE**

**OUTPUT”NUM IS EQUALS TO ZERO”**

**ENDIF**

**END**

**QUESTION 5 OF PSEUDOCODE**

**START**

**INPUT AGE**

**IF AGE>= 13 AND AGE <= 19**

**THEN**

**OUTPUT”YOU ARE A TEENAGER”**

**ELSE**

**OUTPUT” YOU ARE NOT A TEENAGER”**

**ENDIF**

**END**

**ALGORITHMS LAB ACTIVITY**

**ALGORITHM Q1**

1. **ASK THE USER TO ENTER THE YEAR**
2. **CALCULATE (YEAR MOD 4)**
3. **THE ANSWER OF MOD FUNTION IF EQUAL TO ZERO MEANS IT’S A LEAP YEAR**
4. **OTHERWISE ITS NOT A LEAP YEAR**

**ALGORITHM Q2**

1. **USE LENGTH FUNCTION TO CALCULATE NO. OF LETTERS**
2. **SET COUNTER TO ZERO**
3. **START A COUNT CONTROLLED LOOP FROM 0 TILL LENGTH -1**
4. **THEN USE MID FUNCTION AND USE LOOPS INDEX TO STORE THE LETTER IN THE VARIABLE**
5. **USE A MID FUNCTION ALONG WITH ANOTHER LOOP AND COMPARE THE SELECTED LETTER WITH THE OTHER LETTERS IN THE WORD AND IF SAME LETTER FOUND THEN ADD ONE TO THE COUNTER**
6. **AT END OF THE SECOND LOOP PRINT THE SELECTED LETTER AND ALSO OUTPUT THE COUNTER**
7. **THEN ASSIGN COUNTER TO ZERO**
8. **IN LAST OUTPUT THE TOTAL LENGTH OF LETTER USING LENGTH FUNCTION**

**ALGORITHM Q3**

1. **TAKE INPUT OF NUMBER AND POWER**
2. **ASSIGN THE NUMBER TO ANSWER VARIABLE**
3. **THEN USE A COUNT CONTROLLED LOOP WHICH WILL HAVE START FROM 1 AND END AT THE LOOP AT POWER MINUS 1**
4. **IN EACH ITERATION YOU MULTIPLY THE ANSWER WITH NUMBER AND STORE THE RESULT IN THE ANSWER VARIABLE**
5. **AND YOU DO THIS PROCESS UNTIL THE LOOP ENDS**
6. **THEN PRINT THE ANSWER VARIABLE**

**ALGORITHM Q4**

1. **TAKE INPUT OF RADIUS**
2. **STORE IN AN ANSWER VARIABLE (3.142\*RADIUS\*RADIUS)**
3. **OUTPUT ANSWER**

**ALGORITHM Q5**

1. **TAKE INPUT OF NUM1, NUM2 AND NUM3**
2. **IF NUM1 <NUM2 AND NUM2<NUM3**
3. **THEN OUTPUT NUM2 IS MEDIAN**
4. **ELSE IF NUM2 <NUM1 AND NUM1<NUM3**
5. **THEN OUT PUT NUM1 IS MEDIAN**
6. **ELSE OUTPUT NUM3 IS MEDIAN**