Date: 24/7/24
Day: Wednesday

Name: Abijit S.K
Reg: No: 192324057
Course code: CSA0993

Easy Level Programs:-

1. Reverse a word using loop:-

```
Public class reverse {
    Public static void main (string [], args) {
        Scanner input . new . Scanner (system.in);
        string name = input, next Line ();
        string empty = "";
        int len = name, length ();
        for (int i = len - 1; i >= a; i--) {
            empty = empty + name . char At (i);
        }
        system Out. Print ln (empty);
    }
}
```

Input
TEMPLE
Output
ELPMET

---

2. Username valid or not:-

```
Public class username {
    Public static void main (string [] _ args) {
        Scanner input = new Scanner (system). in);
        String . s1 = input . next Line ();
        String . s2 = input . next Line ();
        if (s1 == s2) {
```

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        Scanner input . new . Scanner (system.in);
        string name = input, next Line ();
        string empty = "";
        int len = name, length ();
        for (int i = len - 1; i >= a; i--) {
            empty = empty + name . char At (i);
        }
        system Out. Println (empty);
    }
}
```

Input
TEMPLE
Output
ELPMET

---

2. Username valid or not:-

```
Public class username {
    Public static void main (string [] , args) {
        scanner input = new Scanner (system). in);
        string . s1 = input . next Line ();
        String . s2 = input . next Line ();
        if (s1 == s2) {
```

```
        System. out. Print in ("valid  Username")
    }
    else {
        System. Out. Print in ("Invalid  Password")
    }
  }
}
```

Input
Saveetha @ 4029
Saveetha @ 4029
Output
vaild Username

---

3) Reverse a number using loop :-

```
Public class reverse {
    Public static void main (string [ ]. args) {
        int num = 123;
        int rev = 0;
        while (num ! = 0) {
            int rem = num % 10;
            rev = rev * 10 + rem;
            num = 10
        }
        system out. Println (rev);
    }
}
```

Input
123
Output
321

4. Eligible to vote:

```
Public class vote {
    Public static void main (string [], args){
        int age = 18;
        if (age >= 18){
            System out. Println ("Eligible to vote");
        }
        else {
            System out. Println ("Non eligible to vote");
        }
    }
}
```

Input
18
Output
Ellgible to vote

5. LCM & GCD:-

```
Public class GCD {
    Public static void main (string [] . args) {
        int x = 18, y = 54, smaller;
        if (x > y) {
            smaller = y;
        }
        else {
            smaller = x;
        }
```

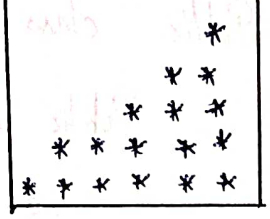
```
for (int i=1 ; i<= smaller ; i++){
    if (x % i == 0){
        int gcd = i;
    }
}
    system.out.println(gcd);
system.out.println(lcm);
}
}
```

Input
16, 20
Output
Lcm = 80 Gcm = 4

---

6. Right Traingle star Pattern :-

```
Public class Patter{
    Public static void main (String [] args){
        int n = 5;
        for (int i=1; i<=5 ; i++){
            for (int j=0, j <=n-i; j++){
                system out.print (" ");
            }
            for (int k = i; k <=1; k++){
                system.out.print (" ");
            }
            system.out.println();
        }
    }
}
```

Input
n = 5
Output


7. Pattern:

```
Public class Patter {
    Public static void main (string [], args){
        int n = 5; i, j;
        for (i = 1; i <= n; i++){
            system . out. print (" ");
        }
        for (j = 1; j <= i ; j++) {
            system out. Print (a + " ");
            a = a * a (i - j) / j;
        }
        system . out. Println ();
    }
}
```

Input
5

Output

```
        1
      1   1
    1   2   1
  1   3   3   1
1   4   6   4   1
```

8. Simple Interest:

```
Public class SI {
    Public static void. main (string [], args) {
        Scanner input = new scanner (system . in);
        int Pri = 200000;
        int yr = 3;
        char age = input . next (). char At (0);
        double interest = 0.0;
        if (age == 'y') {
            interest = (Pri * yr * 0.12) / 100;
```

```
        system.out.Println(Interest);
    }
    else{
        interest = (Pri * yr * 0.1)/100;
        system out.println(interest);
    }
  }
}
```

Input
200000 3 n
Output
60000

---

9. Fibanocci Sum :

```
Public class Fibanocci Sum {
    Public static void main (string [] args) {
        int n = input.nextLine();
        int a1 = 0, a2 = 1.034
        int a [] = new int [50];
        for (int i = 0; i < 10; i++) {
            a [i] = a1;
            system.out.Print (a [i] + " ");
            a3 = a1 + a2;
            a1 = a2;
            a2 = a3;
        }
        int sum = 0
        for (int i = 0; i <= n * 2; i = i + 2) {
            sum = a sum + a [i];
        }
        system.out.Print ("sum: " + Sum);
    }
}
```

Input:
4
Output:
33

10. Numbers:

```
Public class numbers {
    Public static void main (string [], args ) {
        int m = 50 , N = 100 , K = 7 ;
        for (int i = m; i <= n; i = i + K + 1) {
            system . out . Print (i + " ");
        }
    }
}
```

Input: 50, 100, 7
Output: 50, 58, 66, 74 ---