Programming in java for Application Development

Name : S. Sudharsan
Reg No : 192321077
DATE : 24/07/2024
COURSE CODE : CSA-0993

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.println (empty);
    }
}
```

Input : TEMPLE
output : ELPMET

2. user name 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.println ("valid username")
        }
        else {
            system out.println ("valid username")
        }
        else {
            system .out .println ("Invalid password")
        }
    }
}
```

Input: saveetha@4029
saveetha@4029

output:
valid 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("eligib to vote");
        }
        else {
            system.out.println("Non eligible to vote");
        }
    }
}
```

Input: 18

output: eligible 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;
    3 for (int i=1; i<smaller; i++) {
            if (x%i == 0) {
                int gcd = i; 33
            system out println (gcd);
            system out println (lcm); 33
```

Input: 16, 20

output:

LCM = 80

GCD = 4

6- Right Triangle star pattern

```
public class pattern {
    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=1;k<=i;k++) {
            system .out print ("* ");
            }
        system .out.println ();
    }
}
}
```

Input:
n=5

output:

7- pattern:

```
public class pattern {
    public static void main (string [], args){
    int n =5 ; i ; j ;
    for (i=1; i<=n ;i++){
        System .out.print (i " ");
        for (j=1;j<=i ;j++){
            system out print (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)s
int pri =200000;
int yr=3;
char age =input.next().charAt(0);
double interest =0.0;
if (age == "y") {
    interest = (pri * yr * 0.12)/100;
    system.out.println (interest ); 3
else { interest = (pri * yr "0.1)/100;
system out println (interest ); 333
```

Input: 200000
3
n

output:
600000

9. fibonacci sum:

```
public class fibonacci sum {
  public static (void main (String [], args){
    int n = input.next line ();
    int a1=0, a2=1. a3;
    int a[] =new int[50];
    for (int i=0 ; i <10; i++) {
      a[i] = a1;
      system.out.print(a[i]+" ");
      a=3 = a1 +a2;
       a1 =a2;
       a2=a3; }
    int sum =0
  for (int i=0; i<=n*2 ;i =i+2){
```

Input : 4

output : 33

```
        sum = sum + a[i];
      }
      System.out.println("sum: " + sum);
    }
}
```

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, ...