

CSA099- Java Programming

24/7/24

1. write a program to reverse a word ?

```
import java.util.Scanner;

public class ReverseString
{
    public static void main (String[] args)
    {
        Scanner input = new Scanner (System.in);
        String name = input.nextLine();
        String Builder reversed = new StringBuilder (name).reverse();
        System.out.println (reversed);
    }
}
```

2. write a program to check the entered username is valid or not
Input:- sarveetha@T89

```
import java.util.Scanner;

public class user {
    public static void main (String[] args)
    {
        Scanner input = new Scanner (System.in);
        String s1 = input.nextLine();
        String s2 = input.nextLine();
        if (s1 == s2)
            System.out.println ("user name valid");
        else
            System.out.println ("user name invalid");
    }
}
```

3. write a Program to reverse a number using loop?

input: 14567

```
import java.util.Scanner;
```

```
public class IntegerReversed
```

```
{  
    public static void main (String[] args)
```

```
{  
        Scanner input = new Scanner (System.in);
```

```
        int n = input.nextInt();
```

```
        int rev = 0;
```

```
        while (n != 0)
```

```
        {  
            int rem = n % 10;
```

```
            rev = rev * 10 + rem;
```

```
            n = n / 10;
```

```
        }  
        System.out.println ("Reversed integer: " + rev);
```

```
    }
```

```
}
```

4. write a Program to find whether the person is eligible for vote or not?

```
import java.util.Scanner;
```

```
public class ReverseString
```

```
{  
    public static void main (String[] args)
```

```
{  
        Scanner input = new Scanner (System.in);
```

```
        int age = input.nextInt();
```

```
        if (age > 18)
```

```
        {  
            System.out.print ("you are eligible to vote.");
```

```
        }
```

```

else if (age > 0 && age <= 18)
{
    System.out.print("you are allowed to vote after " + (18-age) + "years");
}
else
{
    System.out.print("Enter the age correctly.");
}
}
}
}

```

5. Find the LCM and GCD of n numbers?

N value = 2

$N_1 = 16$

$N_2 = 20$

```

import java.math.BigInteger;
public class LCM_GCD_Calculator
{
    public static void main (String[] args)
    {
        BigInteger lcm = BigInteger.ONE;
        BigInteger[] number : number
    {
        lcm = lcm.multiply (number) divide (lcm.gcd (number));
        gcd = gcd.gcd (number) max (number);
    }
    System.out.println ("LCM = " + lcm);
    System.out.println ("GCD = " + gcd);
}
}

```

6. Write Program to print Right Triangle star Pattern

Input $n=5$

Public class Pattern

{
Public static void main (String[] , arg)

{

int $n=5$

for (int $i=1$; $i \leq 5$; $i++$)

{

for (int $j=0$; $j \leq n-i$; $j++$)

{

System.out.print (" ");

}

for (int $k=0$; $k \leq 1$; $k++$)

{

System.out.print (" ");

}

System.out.print (" ");

}

}

}

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.println(" ");
    }
    for (j = i; j <= i; j++)
    {
        System.out.print (a + " ");
        a = a' (i - j) % 5;
    }
    System.out.println();
}
}

```

Input
200000
3
n

Output
00000

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().charAt(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);
        }
    }
}

```

9 Fibonacci Sum:

Public class Fibonacci Sum:

{
public static void main (String args)

{
int n = input.nextInt();

int a1 = 0, a2 = 1, a3;

int a[] = new int[n];

for (int i = 0; i < n; i++)

{

a[i] = a1;

System.out.print(a[i] + " ");

a1 = a2;

a2 = a3;

}

int sum = 0

for (int i = 0; i < n; i++)

{

sum = sum + a[i];

}

System.out.println("sum: " + sum);

}

}

Input = 4

Output = 33

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,

Output = 50, 58, 66, 74, ...