

1) Write a program to reverse a word using loop?

```
Scanner input = new Scanner(System.in);
String name = input.nextLine();
String empty = "";
int len = name.length();
for (int i = len - 1; i >= 0; i--) {
    empty = empty + name.charAt(i);
}
System.out.print(empty);
```

String: TEMPIE
Output: ELPMET

2) Write a program to check the entered user name is valid or not.

```
Scanner input = new Scanner(System.in);
String s1 = input.nextLine();
String s2 = input.nextLine();
if (s1 == s2)
    System.out.print("User name valid");
else
    System.out.print("User name invalid");
```

Input
SAVETHA@789
User name invalid

10. Write a program to print the numbers given in tow by skipping K numbers in between?

```
Scanner input = new Scanner (System.in);
int m = input.nextInt();
int n = input.nextInt();
int k = input.nextInt();
for (int i = m; i <= n; i = i + k)
{
    System.out.print(i + " ");
}
```

```
if (range == 1 > 1)
{
    int cintact = (PMT + year * 0.12) / 100;
    System.out.print(cintact);
}
```

```
9) Java program find even sum of Fibonacci series?
int ninput = new Scanner();
int a1 = 0, a2 = 1, a3;
int a[2] = new int [50];
for (int i = 0; i < 10; i++)
{
    a[i] = a1;
}
```

```
a[1] = a1 + a2;
System.out.print(a[1] + " ");
a3 = a1 + a2;
a1 = a2;
a2 = a3;
```

```
for (int i = 0; i < ninput.nextInt(); i++)
{
    int sum = 0;
```

```
    for (int j = 0; j < i; j++)
        sum = sum + a[j];
}
```

```
System.out.println("The sum is: " + sum);
```

I write a program to print the below pattern

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

```
Scanner input = new Scanner (System.in);  
int n = input.nextInt();  
for (int i = 1; i <= n; i++)  
{  
    int a = i;  
    for (int s = 1; s <= n - i; s++)  
    {  
        System.out.print(" " + a);  
    }  
    for (int j = 1; j <= i; j++)  
    {  
        System.out.print(a + " ");  
        a = a + (i - j);  
    }  
    System.out.println();
```

8. Write a program using function to calculate the simple interest.

Suppose the customer is a senior citizen he being charged 12% per year rate of interest.

```
Scanner input = new Scanner (System.in);  
int pmi = input.nextInt();  
int year = input.nextInt();  
char age = input.next().charAt(0);  
double interest = 0.0;
```

```
System.out.println("Bind god Ca, n);  
int god = Bind god(c, n);  
for (int i = 0; i < n; i++)  
{  
    nn = i * nn + god;  
    int l = nn / god;  
    System.out.print(l);  
}
```

6. Write a program to print right triangle star pattern

```
Scanner input = new Scanner(System.in);  
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.print("\n");  
}
```

5) Find the Lcm and GCD of n numbers.

```

import java.util.Scanner;
public class GCD
{
    static int gcd(int a, int b)
    {
        if (a == 0)
            return b;
        return gcd(b % a, a);
    }

    static int findGCD(int a[], int n)
    {
        int res = a[0];
        for (int i = 0; i < n; i++)
        {
            res = gcd(res, a[i]);
            if (res == 1)
                return 1;
        }
        return res;
    }

    public static void main (String [] args)
    {
        Scanner input = new Scanner (System.in);
        int n = input.nextInt();
        int a[] = new int [n];
        for (int i = 0; i < n; i++)
        {
            a[i] = input.nextInt();
        }
    }
}

```

3. Write a program to reverse a number using loop?

Number: 14567

Output: 76541

Scanner input = new Scanner (System.in);

int n = input.nextInt();

int rev = 0;

while (ch != 0)

{

int rem = n % 10;

rev = rev + 10 * rem;

n = n / 10;

}

System.out.print(rev);

4. Write a program to find whether the person is eligible for vote or not. And if that particular person is not eligible then print how many left to eligible.

• Enter age: 7 Output: You are allowed to vote after 11 years.

Scanner input = new Scanner (System.in);

int age = input.nextInt();

if (age > 18)

System.out.print ("Enter the age for vote");

else if (age <= 0)

System.out.print ("Enter the age correctly");

else

System.out.print ("You are allowed to vote after " + 18 - age);