

Course Code : CSA0993

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Course Name : Java Programming

19222108

Assignment - 4

1] factorial :-

```
Scanner input = new Scanner (System.in);
int n = input.nextInt();
int fact = 1;
for (int i=1; i<=n; i++) {
    fact = fact * i;
}
System.out.println (" " + fact);
```

2] pattern :-

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

}

3] Composite number:

```
Scanner input = new Scanner(System.in);
Scanner input - new Scanner (System.in);
int arr [I = {16, 18, 27, 16, 23, 21, 19}];
int len = arr. length;
int count = 0;
for (int i=0; i<len; i++) {
    int c=0;
    for (int j=1; j<100; j++) {
        if (arr[i] % j == 0) {
            c++;
        }
    }
    if (c>2)
        count++;
}
System.out.println (count);
```

4] n<sup>th</sup> odd number:

```
Scanner input = new Scanner (System.in);
int n = input.nextInt();
int arr [I = new int [100]];
int j=1;
for (int i=1; i<100; i++) {
    if ((j+2) % 2 == 0) {
```

System.out.println((char)(n + 2));

3] String at index :-

Scanner input = new Scanner(System.in);

String str = input.nextInt();

char c = input.next().charAt(0);

int len = str.length();

int x = 0;

for (int i = 0; i < len; i++) {

char c1 = str.charAt(i);

if (c == c1) {

System.out.println(c + " " + (i + 1))

x++;

}

if (x == 0) {

System.out.println(" ");

4] pattern :-

Scanner input = new Scanner(System.in);

int n = input.nextInt();

for (int i = 1; i <= n; i++) {

    for (int j = 1; j <= i; j++) {

        System.out.print(i);

```
System.out.println();
```

```
}  
for (int i = n+1; i >= 1; i--) {  
    for (int j = 1; j <= i; j++) {  
        System.out.print(i);  
    }  
    System.out.println();  
}
```

7] Armstrong number :-

```
Scanner input = new Scanner(System.in);  
int n = input.nextInt();  
int num1 = n;  
int sum = 0;  
while (num1 != 0) {  
    int rem = num1 % 10;  
    sum = sum + (rem * rem * rem);  
    num1 = num1 / 10;  
}  
if (n == sum) {  
    System.out.println(" ");  
} else {  
    System.out.println(" ");  
}
```

System.out.print(in);

40.) Square Dollar Pattern

Public static void main (String args[])

{

Scanner input = new Scanner  
System.in);

int n = input.nextInt();

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

8] Reverse order:

```
import java.util.Scanner;
import java.util.Arrays;
public class A {
    public static void main(String args[]) {
        Scanner input = new Scanner(System.in);
        String name = input.nextLine();
        int len = name.length();
        char arr[] = new char[len];
        String Alpha;
        for (int i = 0; i < len; i++) {
            arr[i] = name.charAt(i);
        }
        Arrays.sort(arr);
        for (int i = len - 1; i >= 0; i--) {
            System.out.print(arr[i] + " ");
        }
    }
}
```

9] Removing vowels:

```
Scanner input = new Scanner(System.in);
String name = input.nextLine();
String n1 = name.replaceFirst("E|I|O|U", "");
System.out.println(n1);
```