

K. P. Jagarath Rao
192321038

1. Find the factorial of n?

```
import java.util.Scanner  
public class factorial  
<  
    public static void main(String[] args)  
<  
        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(n + " factorial = " + fact);  
    }
```

2. Write a program to print the below pattern

```
1  
4 9  
16 25 36  
49 64 81 100
```

```
import java.util.Scanner  
public class printPattern  
<  
    public static void main(String[] args)  
<  
        Scanner input = new Scanner(System.in);  
        int n = input.nextInt();  
        int k = 1;  
        for (int i = 1; i <= n; i++)
```

```
<
for (int i=1; i <=j; j++)
<    system.out.print (k*t + " ");
    k++;
>
system.out.println();
>
>
```

3 write a program to print the number of array of elements.

```
import java.util.Scanner;
public class compositeNumber
< public static void main (String) args
<
Scanner input = new Scanner (System.in);
int arr[] = {16, 18, 28, 16, 23, 2, 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.print (count);
```

4 Find the n^{th} odd numbers after n odd numbers.

```
import java.util.Scanner;
public class OddNumbers {
    public static void main (String [] args) {
        Scanner input = new Scanner (System.in);
        int n = input.nextInt ();
        int arr [] = new int [100];
        int j = 1;
        for (int i = 1; i < 100; i++) {
            if ((i + 2) % 2 == 0) {
                arr [j] = i;
                j++;
            }
        }
        System.out.print (arr [n * 2]);
```

5 Write a program that finds whether a given character is present in string or not.

```
import java.util.*;
public class Character {
    public static void main (String [] args) {
        Scanner input = new Scanner (System.in);
        String str = input.nextLine();
        char c = input.next (), charAt (0);
        char arr [] = new char [str.length ()];
        int sen = str.length ();
```

```
int x = 0;
for (int i = 0; i < len; i++) {
    arr[i] = str.charAt(i);
    if (arr[i] == ' ')
        system.out.print(" character not found in string at index " + i);
    else
        x++;
}
if (x == 0)
    system.out.print(" character not found");
}
```

Q. write a program to print the below pattern.

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

```
'import java.util.Scanner;
public class point pattern
{
    public static void main(String[] args)
    {
        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(j);
        system.out.print();
    }
}
```

```
for (int j = i; j < i + H)
```

```
System.out.print();
```

3

western point ();

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2

7 program to find whether the given number is Armstrong number or not.

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

pushie van armstrong.

pushie state void main (string) args

\leftarrow scanner input: new names (system.in);

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

$$\text{int arm} = 0;$$

while ($\text{num} \leq 0$)

Int. Gen. Film 13. 10.

$$arm := arm + (rem * rem * rem);$$

3

$$j = (n := \text{new})$$

system.out.print('Armstrong number');

she

system, alt. print ("Not Armstrong number");

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* write a program to arrange the word alphabatically
reverse order

```
import java.util.Scanner  
import java.util.Arrays;  
public class abc  
{  
    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. write a program that accept a string from the user and display removing vowel from it.

basically

```
import java.util.Scanner  
public class removing_vowel  
< public static void main (String [] args)
```

```
< Scanner input = new Scanner (System. in)  
String name = input.nextLine ();  
String n = name.replace ("AEIOUAEIOU");  
System.out.println (n);  
3
```

5.
12 write a program to print hollow square in dollars
pattern

```
import java.util.Scanner;  
public class 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++)  
< for (int j=0; j<n; j++)
```

```
else  
System.out.print (" ");
```

```
3  
System.out.println();
```

```
3  
2
```