R. Sudhakar 192311024 CSA0993 programming in JAVA for Application Development.

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```
import java. util. scanner;

public class Factorial {

public static void main (string [] augs) {

int n= new scanner(system.in).nextInt(), fact = 1;

for lint 1=1; P<=n; P++) fact = 1;

system.out.print ("Factorial of "+n+" is" + fact);

}
```

@ write a program to print the below partiern:

```
import java. util. Stanner;

public class Number pattern {

public static void main (string [7 args) {

   int n=new Scanner (system.in) next (nt(), k=1;

   for (int f=1; f=1; j++) {

      System.out.print (k* k+"");

      k++;

   }

   system.out.print(n();
}
```

```
3 write a program to find the number of composite
   numbers in an away of elements.
       public c
       public class composite numbers {
          public static void main (string [Jargs] {
             int[] ags= {16,18,27,16,23,21,19);
            int count = 0;
            for lint num: are ) if (is composite (num)) count +-1;
            System out print ("Number of composite Numbers =
                                    " count);
           public static boolean is composite (int num) {
              & (num <=1) return false;
              for (int P=2; P = = math. sat (num); i++)
                   ek (num % 1=0) neturn true;
           return false;
    find the 1th odd number after nodd number.
(A)
       import java. util. scanner;
       public class sind NHh odd Number {
          public static Void main (string 17 args) {
             Int n=new scanner (system in) next Int();
             int rosult = h + 4-1;
             system. out. println [n + "th odd nom after" + n"
        odd nums = " + resolt);
```

B) write a program that finds whether a given character is present in a string or not. In case it is present it prints the index at which it is present to not use built in bind functions to search the character.

```
import java. util. scanner:
public class Find character in string f
    public static void main [ string [] args) {
        Scanner input = new scanner ( system. in);
       System. out. print (" Enter stung: "):
       String str = in put. next line !!;
       System. out. print (" Enter char to search: ");
       char c= input. next []. char At (0);
       int index = -1;
      for lint =0; PLStr. length (1; i++) }
          if (str. charAt()) == 1) f
             index=1;
             break
        Jud lindex >=0){
            System. out. println (c+ "found in idex:" + index);
        9 olse {
           system. out pointly ("char not found");
```

```
write a program to print the below pattorn:
     do port java. otil. sanner;
     public class number Pattern ?
        public static void main (string [] augs) {
           Scanner input = new scanner (system in);
           int n = input. nextint();
           for (int P=1; P = = =; * n -1; 1++) {
             int num = PK=n? Par n-i;
             dor [intj=1; j == nom; j++){
                int num.
                system.out.print (nom + " ");
             System. out. print (num + " ");
program to find whether the given number is Armstrong
 number or not.
     import java. util. scanner;
     public class Armshong Number ,
        public static void main (string[] args) {
           Scanner input = new scanner (system.in);
           int n= input.next int ();
           int aum = 0, num = n;
          while (num >0) f
            int digit = nom / 10;
          am += digit + digit * digit
          num =10;
```

```
If (n=2 arm) f

System out paint in ("Armstrong normbon");

Folse f

System out paint in ("Not Armstrong");

T
```

8) write a program to avange the letters of word alphabetically in reverse order.

```
import java. Util. scanner;
import java. Util. Arrays;

public class beverse Alphabetical order {

public static void main [string [] args) {

scanner input = new scanner (cystom.in);

Char[] arr = input. nextline(). to char Array();

Array. Sort (arr);

yor [int != arr. length -1; ! >= 0; !-) {

system.out. print (arr(i) + "");

}
```

7

```
write a program that accepts a string from usor and
  displays the same stung after removing vowels
   from it.
       import java. util scanner;
       public class persone volvels f
          public static void main (string [] args) {
             Scanner input = new scanner (system. in);
            string result = input. new line (), replace All (" aciou AEIOUT" ")
System out print In (" string without vousels:" + result);
(6) write a program to print hollow square Dollar pattern?
         import java. util. scanner:
         public class Hollow square Pattern f
            public static void main (string [] args) {
               Scanner input = new scanner ( system in );
               char c = input · next(). char At(0);
               for lint P=1; PC=5; i++)f
                 for (int j=1) j L=5; j++) {
                    system, out. print (li=1 || j==1 || i==5 || j==5?
                                       c: ") + " );
               system.out.println();
```