```
1 ] //Write a program to print out all Armstrong numbers between 1
and 500.
package Demo;
public class ArmstrongNumber {
     public static void main(String[] args) {
      int n; int b ;int count =0;
      System.out.println("Armstrong numbers are >>");
           for(int i=1;i<=500;i++)</pre>
           {
                 n=i;
                 while(n>0)
                 {
                       b=n%10;
                       count = count + (b*b*b);
                       n=n/10;
                 if(count == i)
                       System.out.print(+i +" ");
                 count =0;
           }
     }
}
      <terminated> ArmstrongNumber [Java Application] C:\Program
      Armstrong numbers are >>
      1 153 370 371 407
o/p = 1
2] package Demo;
// Write a Java program to print numbers between 1 to 100 which are
divisible by 3, 5 and by both.
public class Divisible3and5 {
     public static void main(String[] args) {
           int count =0;
           for(int i=1;i<=100;i++)</pre>
                 count =0;
                 if (i%3==0 || i%5==0)
                 {
```

```
count++;
                     if(count!=0)
                             System.out.print(+i+" ");
              }
       }
}
o/p =
 Markers ☐ Properties ঋ Servers ☐ Console 🌣 🎁 Data Source Explorer 🔓 Snippets 🔅 Debug
                                                              <terminated> Divisible3and5 [Java Application] C\Program Files\Dava\prel.8.0_241\bin\javaw.exe (26-Mar-2023, 11:41:00 AM)
3 5 6 9 10 12 15 18 20 21 24 25 27 30 33 35 36 39 40 42 45 48 50 51 54 55 57 60 63 65 66 69 70 72 75 78 80 81 84 85 87
3) package Demo;
import java.util.Scanner;
//Write a program to print Fibonacci series of n terms where n is
input by user :
//0 1 1 2 3 5 8 13 24 .....
public class Fibonacci {
       public static void main(String[] args) {
              int num1 = 0;
              int num2 = 1;
              int next;
              int input;
              System.out.println("Enter the number for fibonacci >>");
              Scanner <u>sc</u> = new Scanner(System.in);
              input = sc.nextInt();
              for (int i = 1; i <= input; i++) {</pre>
                     System.out.print(num1 + " ");
                     next = num1 + num2;
                     num1 = num2;
                     num2 = next;
              // System.out.println("Addition of Series is >>"+num2);
       }
o/p=
```

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  <terminated> Fibonacci [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (26-Mar-2
  Enter the number for fibonacci >>
  0 1 1 2 3 5 8 13 21 34
4) package Demo;
import java.util.Scanner;
public class LargestThree {
     public static void main(String[] args) {
           int num1 , num2 ,num3;
           System.out.println("Enter three numbers >>>");
           Scanner <u>sc</u> = new Scanner(System.in);
           num1= sc.nextInt(); num2=sc.nextInt(); num3=sc.nextInt();
           if(num1>num2 && num1>num3)
                 System.out.println("Gretest number is >> "+num1);
           }else if(num2>num1 && num2>num3)
                 System.out.println("Gretest number is >> "+num2);
           }else {
                 System.out.println("Gretest number is >> "+num3);
     }
}
o/p =
<terminated> LargestThree [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (26-
 Enter three numbers >>>
 256 635 698
 Gretest number is >> 698
```

5) package Demo;

```
import java.util.Scanner;
public class Menudriven {
     public static void main(String[] args) {
           int addition;
           int substraction;
           int multiplication;
           int division;
           int a,b; int input;
           Scanner <u>sc</u> = new Scanner(System.in);
           System.out.println("Enter 1) Addition 2) substraction 3)
multiplication 4) Divison ");
           input = sc.nextInt();
           System.out.println("Enter two numbers >> ");
           a=sc.nextInt();
           b=sc.nextInt();
           switch(input)
           case 1:
                addition =a+b;
                System.out.println("addition is >>"+addition);
                break;
           case 2:
                substraction =a-b;
                System.out.println("addition is >>"+substraction);
                break;
           case 3:
                multiplication =a*b;
                System.out.println("addition is >>"+multiplication);
                break;
           case 4:
                division =a/b;
                System.out.println("addition is >>"+division);
                break;
                default:
                      System.out.println("/////YOU ENTERED WRONG
CHOICE/////");
                      break;
                }
           }
     }
}
```

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o/p =
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📳 Markers 🔲 Properties 🚜 Servers 📮 Console 🛭 🛍 Data Source Explorer 📔 Snippets 🔅 Debug
  <terminated> Menudriven [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (26-Mar-2023, 11:44:56 AM)
  Enter 1) Addition 2) substraction 3) multiplication 4) Divison
  Enter two numbers >>
  56 98
  addition is >>-42
6) package Demo;
// Write a program to calculate the sum of first 10 natural number.
public class Naturalsum {
      public static void main(String[] args) {
            // TODO Auto-generated method stub
            int num; int sum=0;
            for(num=1;num<=10;num++)</pre>
                  sum=sum+num;
            System.out.println("Sum of first 10 naturam num is >>
"+sum);
}
o/p =
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  <terminated> Naturalsum [Java Application] C:\Program Files\Java\jre1.8.0_241\k
  Sum of first 10 naturam num is >>
7) package Demo;
import java.util.Scanner;
/*Write a do-while loop that asks the user to enter two numbers.
 * The numbers should be added and the sum displayed. The loop
should ask the user whether he or
* she wishes to perform the operation again. If so, the loop should
repeat; otherwise it should terminate.(while loop)
public class PerformAddition {
      public static void main(String[] args) {
```

```
for (;;) {
                  int input;
                  System.out.println("If you want to do addition then
enter 1 if not then 0 ");
                  Scanner sc = new Scanner(System.in);
                  input = sc.nextInt();
                  if (input == 1) {
                        int num1, num2;
                        System.out.println("Please Enter a Number 1 >>
");
                        num1 = sc.nextInt();
                        System.out.println("Please Enter a Number 2 >>
");
                        num2 = sc.nextInt();
                        int num3 = num1 + num2;
                        System.out.println("Addition of numbers is>>"
+ num3);
                  } else {
                        break;
                  }
            }
      }
}
o/p =
       Markers ☐ Properties ঋ Servers ☐ Console ⋈ 🏙 Data Source Explorer 📔 Snippets
er.jav.
       <terminated> PerformAddition [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (
       If you want to do addition then enter 1 if not then 0
       1
       Please Enter a Number 1 >>
       Please Enter a Number 2 >>
java
       21
       Addition of numbers is>>66
       If you want to do addition then enter 1 if not then 0
       Please Enter a Number 1 >>
       Please Enter a Number 2 >>
       Addition of numbers is>>143
       If you want to do addition then enter 1 if not then 0
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```
8) package Demo;
public class Prime1to20 {
      public static void main(String[] args) {
            int i,j;
            int count=0;
            for(i=2;i<=20;i++)</pre>
                  count = 0;
                  for(j=2;j<i;j++)</pre>
                         if(i%j==0)
                               count++;
                               break;
                         }
                  if(count==0)
                        System.out.print(i+" ");
            }
      }
o/p =
     🔣 Markers 📃 Properties 👭 Servers 📮 Console 🔀 🎬 Data Source
     <terminated> Prime1to20 [Java Application] C:\Program Files\Java\jre1.8.0_2
     2 3 5 7 11 13 17 19
9) package Demo;
/*****
 ******
 ******
 *******/
public class Q7Pattern1 {
      public static void main(String[] args) {
            for(int i=1;i<=4;i++)</pre>
            {
                  for(int j=1;j<=10;j++)</pre>
```

```
System.out.print("*");
                   System.out.println();
            }
      }
}
o/p =
    Markers Properties 👭 Servers 📮 Conso
    <terminated> Q7Pattern1 [Java Application] C:\Prog
10) package Demo;
   **
   ***
   ****
   ***** */
public class Q7Pattern2 {
      public static void main(String[] args) {
            for(int i =1;i<=5;i++)</pre>
                   for(int j=1;j<=i;j++)</pre>
                         System.out.print("*");
                   System.out.println();
            }
      }
o/p=
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    <terminated> Q7Pattern2 [Java Application] C:\Program F
11) package Demo;
public class Q7Pattern3 {
      public static void main(String[] args) {
             for(int i =0;i<=4;i++)</pre>
                    for(int j=4-i;j>0;j--)
                           System.out.print(" ");
                    for(int k=0;k<=i;k++)</pre>
                           System.out.print("* ");
                    System.out.println();
             }
}
}
o/p =
       🖳 Markers 🔳 Properties 🚜 Servers 📮 Console 🛭
       <terminated> Q7Pattern3 [Java Application] C:\Program File
200.ja
ı.java
```

12) package Demo;

```
/*
     ***
    ****
   *****
  ******* */
public class Q7Pattern4 {
      public static void main(String[] args) {
            for (int i = 1; i <= 5; i++) {
                  for (int j = 5 - i; j >= 1; j--) {
                         System.out.print(" ");
                  for (int j = 1; j \leftarrow 2 * i - 1; j++) {
                         System.out.print("*");
                  System.out.println();
            }
      }
}
o/p =
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          🦹 Markers 📃 Properties 🚜 Servers 📮 Console
ıva
          <terminated> Q7Pattern4 [Java Application] C:\Progra
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java
00to200.ja
.java
Num.java
ava
13) package Demo;
     1
    222
   33333
  444444
 55555555 */
public class Q7Pattern5 {
      public static void main(String[] args) {
            for (int i = 1; i <= 5; i++) {</pre>
                  for (int j = 5 - i; j >= 1; j--) {
                        System.out.print(" ");
```

```
for (int j = 1; j \leftarrow 2 * i - 1; j++) {
                       System.out.print(i);
                 System.out.println();
            }
      }
}
o/p =
       Markers Properties 🤻 Servers 📮 Cons
       <terminated> Q7Pattern5 [Java Application] C:\Prc
          222
200.ja
         33333
        444444
ı.java
       55555555
14)
package Demo;
import java.util.Scanner;
// Write a program that prompts the user to input an integer and
then outputs the number with the digits reversed.
//For example, if the input is 12345, the output should be 54321.
public class Reversenum {
      public static void main(String[] args) {
            int num;
            System.out.println("Please Enter a Number >> ");
            Scanner <u>sc</u> = new Scanner(System.in);
            num = sc.nextInt();
            int RevNum=0; int remainder =0;
            while (num != 0) {
                      remainder = num % 10;
                      RevNum = RevNum * 10 + remainder;
                      num /= 10;
            System.out.println("Reverse Num is >> "+RevNum);
      }
}
o/p=
```

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      <terminated> Reversenum [Java Application] C:\Program Files\Java\j
      Please Enter a Number >>
      45689
0.ja
      Reverse Num is >> 98654
ava
15) package Demo;
//Write a program to display first 1 to 20 even number on screen .
//Terminate the program when number 16 is found using break command
public class Stop {
      public static void main(String[] args) {
            for(int i=1;i<=20;i++)</pre>
                   if(i%2==0)
                          if(i==16)
                                break;
                         System.out.print(i+" ");
                   }
            }
      }
}
o/p =
       🔛 Markers 🔳 Properties 👭 Servers 📮 Console 🛭
       <terminated> Stop [Java Application] C:\Program Files\Java\jr
        2 4 6 8 10 12 14
200.ja
n.java
16) package Demo;
```

```
// Write a program to find sum of all integers greater than 100 and
less than 200 that are divisible by 7
public class SumInteger100to200 {
      public static void main(String[] args) {
            int sum = 0;
            for(int i=100 ;i<=200 ;i++)</pre>
                  if(i\%7==0)
                        sum=sum+i;
                  }
            System.out.println("Sum of the integer between 100 to 200
divisible by 7 are >>"+sum);
      }
}
o/p =
    🖳 Markers 🔲 Properties 🚜 Servers 📮 Console 🛭 🏬 Data Source Explorer 📔 Snippets 🔅 Debug
    <terminated> SumInteger100to200 [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (26-Mar-2023, 11:56:28 AN
    Sum of the integer between 100 to 200 divisible by 7 are >>2107
17) package Demo;
import java.util.Scanner;
// Write a program in java to find the sum of the even and odd
digits of the number which is given as input.
public class Sumoddeven {
//Solved With using Integer Array
      public static void main(String[] args) {
            int n, sumeven = 0, sumodd = 0;
         Scanner s = new Scanner(System.in);
         System.out.print("Enter the number of elements in array:");
         n = s.nextInt();
         int[] a = new int[n];
         System.out.println("Enter the elements of the array:");
         for(int i = 0; i < n; i++)</pre>
             a[i] = s.nextInt();
         for(int i = 0; i < n; i++)</pre>
```

```
if(a[i] % 2 == 0)
              {
                  sumeven = sumeven + a[i];
              }
              else
                  sumodd = sumodd + a[i];
              }
         }
         System.out.println("Sum of Even Numbers:"+sumeven);
         System.out.println("Sum of Odd Numbers:"+sumodd);
}
}
o/p =
     🦹 Markers 🔳 Properties 🚜 Servers 📮 Console 🛭 🛍 Data Source Explorer 📔 Snippets 🔅 Debug
     <terminated> Sumoddeven [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (26-Mar-2023, 11:57:23 AM)
     Enter the number of elements in array:12 5 6 3 7 9 52 6 3 4 2 6 9 8
     Enter the elements of the array:
.00.ja
     Sum of Even Numbers:76
     Sum of Odd Numbers:36
.java
18) package Demo;
import java.util.Scanner;
// Write a program that prompts the user to input a positive
integer.
//It should then print the multiplication table of that number.
public class TablePositiveNum {
      public static void main(String[] args) {
            int num;
            System.out.println("Please Enter a Number >> ");
            Scanner sc = new Scanner(System.in);
            num = sc.nextInt();
            if (num<=0)
                   System.out.println("num is negative");
            }else
                   for(int i=1;i<=10;i++)</pre>
                         System.out.println(num*i);
```

```
}
                }
        }
}
o/p =
java
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ion.java
            <terminated> TablePositiveNum [Java Application] C:\Program Files\Java\jre1.8.0_241\bir
             Please Enter a Number >>
va
             -5 -9
va
             num is negative
va
va
va
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0to200.ja
19) package Demo;
//Write a Java program that accepts two double variables and test if both strictly between 0 and 1
and false otherwise.
//Hint n1 > 0 && n1 < 1 && n2 > 0 && n2 < 1
import java.util.Scanner;
public class TestNumber {
        public static void main(String[] args) {
               Scanner sc = new Scanner(System.in);
                System.out.print("Input first number: ");
    double n1 = sc.nextDouble();
    System.out.print("Input second number: ");
    double n2 = sc.nextDouble();
                System.out.println(n1 > 0 \&\& n1 < 1 \&\& n2 > 0 \&\& n2 < 1);
```