submitted by- simran meena

```java
1  /* WAP Write a program to calculate
2   * the sum of first 10 natural number
3   */
4  package day5_assignment;
5
6  public class Practice1 {
7
8      public static void main(String[] args) {
9          int i,num=10,sum = 0;
10         for(i = 1; i <= num; ++i)
11         {
12             sum = sum +i;
13         }
14         System.out.println("Sum of the first 10 number is="+sum);
15     }
16
17 }
18
```

Console ✕

<terminated> Practice1 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Mar 26, 2023, 6:41:57 PM – 6:42:04 PM)
Sum of the first 10 number is=55

```java
1  /* WAP that prompts the user to input a positive integer
2   *  It should then print the multiplication table of tha number
3   */
4  package day5_assignment;
5  import java.util.Scanner;
6
7  public class Practice2 {
8
9      public static void main(String[] args) {
10         Scanner sc = new Scanner(System.in);
11         System.out.println("Enter positive integer");
12         int x= sc.nextInt();
13         int table=0;
14         for(int i=1;i<=10;i++) {
15             table=x*i;
16          System.out.println("The table of given integer is"+table);
17         }
18
19     }
```

```
4

The table of given integer is4
The table of given integer is8
The table of given integer is12
```

Activ
Go to

```java
1  /* WAP  that prompts the user to input an integer and then outputs
2   *  the number with the digits reversed
3   */
4  package day5_assignment;
5  import java.util.Scanner;
6
7  public class Practice3 {
8
9      public static void main(String[] args) {
10         Scanner sc = new Scanner(System.in);
11         System.out.println("Enter a number, you want to reverse");
12         int x = sc.nextInt();
13         int y = 0;
14         int rev = 0;
15         for(;x!=0;x/=10) {
16             y = x%10;
17             rev = rev*10+y;
18         }
19         System.out.print(rev);
```

Enter a number, you want to reverse

34567
76543

Activate
Go to Setti

```java
1  package day5_assignment;
2  import java.util.*;
3
4  public class Practice_4 {
5
6      public static void main(String[] args) {
7
8          int a,b;
9          String choice;
10         do
11         {Scanner s = new
12         Scanner(System.in);
13           System.out.println("Enter two numbers");
14           a=s.nextInt();
15           b=s.nextInt();
16           System.out.println(a+b);
17           System.out.println("do you want to continue Yes/No");
18           choice=s.next();
19         }
20           while(choice.equals("YES"));
21     }
22 }
```

```
23
34
57
do you want to continue Yes/No
```

```java
1  package day5_assignment;
2  import java.util.Scanner;
3
4  public class Practice_5 {
5
6      public static void main(String[] args) {
7
8          Scanner s=new
9          Scanner(System.in);
10          System.out.println("Enter a number");
11          int n=s.nextInt();
12          int m=n;
13          int rem=0;
14          int p=0;
15          while(n!=0)
16          {
17              rem=n%10;
18              p+=Math.pow(rem, 3);
19              n=n/10;
20          }
21          if(m==p)
22              System.out.println("Given number armstrong"+m);
```

```
Enter a number
37
Given number is not armstrong37
```

```java
1 /* WAP to print Fibonacci series of n terms where n is input by user
2  *
3  */
4 package day5_assignment;
5
6 public class Practice_6 {
7
8     public static void main(String[] args) {
9         int n1=0,n2=1,n3,i,count=10;
10        System.out.print(n1+" "+n2);
11
12        for(i=2;i<count;++i) {
13            n3=n1+n2;
14            System.out.print(" "+n3);
15            n1=n2;
16            n2=n3;
17
18        }
19    }
```

0 1 1 2 3 5 8 13 21 34

```java
1 /*WAP of pattern
2  *    **********
3  *    **********
4  *    **********
5  *    **********
6  */
7
8 package day5_assignment;
9
10 public class Practice_7 {
11
12     public static void main(String[] args) {
13         for (int i=1; i<=4; i++)//row
14 {
15         for(int j=1; j<=10;j++)//column
16         {
17             System .out.print("*");
18         }
19             System.out.println();
```

Console ✕

```
**********
**********
**********
**********
```

Writable   Smart Insert

```java
1  /*WAP pattern
2   *  *
3   *  **
4   *  ***
5   *  ****
6   *  *****
7   */
8  package day5_assignment;
9
10 public class Practice_8 {
11
12     public static void main(String[] args) {
13         for (int i=1;i<=5;i++) {
14         for (int j=1;j<=i;j++) {
15             System.out.print("*");
16         }
17             System.out.println();
18
19         }
```

```
*

**

***

****

*****
```

```
 5    * * * * *
 6   *   * * * * *|
 7   */
 8  package day5_assignment;
 9
10  public class Practice_9 {
11
12⊖     public static void main(String[] args)
13         {
14             for (int i=1; i<=5; i++)//rows
15             {
16             for (int j=5; j>i; j--)//left space
17             {
18                 System.out.print(" ");
19             }
20             for (int k=1; k<=i; k++)//middle and right space
21             {
22                 System.out.print("* ");
23             }
24                 System.out.println();
```

```
        *
      * *
    * * *
  * * * *
* * * * *
```

```java
1⊕ /*WAP ⬚
4  package day5_assignment;
5
6  public class Practice_10 {
7
8⊖     public static void main(String[] args) {
9
10      for (int i = 1; i <= 5; i++)
11      {
12      for (int j=5 -i; j>=1; j--)
13      {
14          System.out.print(" ");
15      }
16      for (int j=1; j <= 2*i-1; j++)
17      {
18          System.out.print("*");
19      }
20          System.out.println();
21 }
22 }
23 }
```

🖥 Console ✕

<terminated> Practice_10 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Mar 26, 2023, 12:06:01 PM – 12:06:04

```
    *
   ***
  *****
 *******
*********
```

```java
 5  *       4444444
 6  *     555555555
 7  */
 8  package day5_assignment;
 9
10  public class Practice_12 {
11
12          |
13⊝     public static void main(String[] args) {
14
15             for (int i = 1; i <= 5; i++)
16             {
17             for (int j=5 -i; j>=1; j--)
18             {
19                 System.out.print(" ");
20             }
21             for (int j=1; j <= 2*i-1; j++)
22             {
23                 System.out.print(i);
24             }
25                 System.out.println();
26         }
```

Console ×

```
    1
   222
  33333
 4444444
555555555
```

```java
13    public static void main(String[] args) {
14
15        int x=71, space=-1;
16        char y='F';
17        for(int i=1; i<=5; i++) {
18            x--;
19        for(char a='A';a<x;a++) {
20            System.out.print(a);
21        }
22        space++;
23        for(int z=2; z<=space+1; z++) {
24            System.out.print(" ");
25        }
26        for(int z=2;z<=space+1;z++) {
27            System.out.print(" ");
28        }
29        y--;
30        for(char b=y;b>='A';b--) {
31            System.out.print(b);
32        }
33        System.out.println();
34        }
```

```
ABCDEEDCBA
ABCD   DCBA
ABC     CBA
AB       BA
A         A
```

```java
7  public class Practice_16_Odd {
8
9⊖      public static void main(String args[])
10      {
11          Scanner sc = new Scanner(System.in);
12          int n, sumodd=0,sumeven=0,rem;
13          System.out.println("Enter your Number: ");
14          int num=sc.nextInt();
15          n=num;
16          while(num>0)
17          {
18              rem=num%10;
19              if(rem%2==0)
20              {
21                  sumeven=sumeven+rem;
22              }
23              else
24              {
25                  sumodd=sumodd+rem;
26              }
27              num=num/10;
28          }
29          System.out.println("Sum of even digits in "+n+" is "+sumeven);
30          System.out.println("Sum of odd digits in "+n+" is "+sumodd);
31      }
32  }
33
34
```

Console ✕

```
<terminated> Practice_16_Odd [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Mar 26, 2023, 5:51:33 PM – 5:
Enter your Number:
245678
Sum of even digits in 245678 is 20
Sum of odd digits in 245678 is 12
```

```java
1  /*WAP   to check if given number is prime or not
2   *
3   */
4  package day5_assignment;
5  import java.util.Scanner;
6
7  public class Practice_15_prime {
8
9      public static void main(String[] args) {
10         Scanner sc= new Scanner(System.in);
11           System.out.println("Enter a number to check if it is truly prime number or not: ");
12           int number= sc.nextInt();
13           if(isPrime(number)) {
14               System.out.println(number + " is prime number");
15           }
16           else{
17               System.out.println(number + " is a non-prime number");
18           }
19      }
20      static  boolean isPrime(int num)
21      {
22          if(num<=1)
```

Enter a number to check if it is truly prime number or not:
23
23 is prime number

```java
1  /*WAP   to print prime numbers between 2 to 20
2   * |
3   */
4  package day5_assignment;
5  import java.util.*;
6  public class Practice_14 {
7
8      public static void main(String[] args) {
9
10             int low = 2, high = 20;
11
12             while (low < high) {
13                 boolean flag = false;
14
15                 for(int i = 2; i <= low/2; ++i) {
16                     // condition for nonprime number
17                     if(low % i == 0) {
18                         flag = true;
19                         break;
20                     }
21                 }
22
```

Console ✕

<terminated> Practice_14 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Mar 26, 2023, 5:33:55

2 3 5 7 11 13 17 19

```java
1   /* WAP to check larger number among three */
2
3   package Day3;
4   import java.util.*;
5
6   public class Question10 {
7       public static void main(String[] args) {
8               System.out.println("Enter number 1");
9               Scanner sc = new Scanner(System.in);
10              int number1 = sc.nextInt();
11              System.out.println("Enter number 2");
12              int number2 = sc.nextInt();
13              System.out.println("Enetr number 3");
14              int number3 = sc.nextInt();
15
16              if((number1>number2) && (number1>number3))
17              System.out.println("number1 is larger");
18
19              else if ((number2>number1) && (number2>number3))
20              System.out.println("number2 is larger");
21
22              else if ((number3>number2) && (number3>number1))
23              System.out.println("number3 is larger");
24      }
25  }
26
```

```
Enter number 2
34
Enetr number 3
78
number3 is larger
```

```java
1  package day5_assignment;
2
3  public class Practice_13 {
4
5      public static void main(String[] args) {
6
7          int sum = 0, count=0;
8          for(int i=101; i<200; i++) {
9
10         if (i%7==0)
11         {
12             sum=sum+i;
13             count++;
14         }
15         System.out.println("Sum of number between 100 to 200 which are divisible by 7 is: "+sum);
16         System.out.println("Total numbers between 100 to 200 which are divisible by 7 is: "+count);
17         }
18     }}
19
```

Sum of number between 100 to 200 which are divisible by 7 is: 2107
Total numbers between 100 to 200 which are divisible by 7 is: 14

```java
1  /*WAP  print numbers between 1 to 100 which are divisible by 3, 5 and by both
2   *
3   */
4  package day5_assignment;
5
6  public class Practice_17 {
7      public static void main(String args[])
8          {
9              System.out.println("\nDivided by 3: ");
10             for (int i=1; i<100; i++)
11             {
12                 if (i%3==0)
13                 System.out.print(i +", ");
14             }
15
16             System.out.println("\n\nDivided by 5: ");
17             for (int i=1; i<100; i++)
18             {
19                 if (i%5==0) System.out.print(i +", ");
20             }
21
22             System.out.println("\n\nDivided by 3 & 5: ");
23             for (int i=1; i<100; i++)
24             {
25                 if (i%3==0 && i%5==0) System.out.print(i +", ");
26             }
27             System.out.println("\n");
28         }
```

Console ×

<terminated> Practice_17 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Mar 26, 2023, 6:01:11 PM – 6:01:16 PM) [pid: 6828]

3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81, 84, 87, 90, 93, 96, 99,

Divided by 5:
5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95,

Divided by 3 & 5:

```java
1  /*WAP to display first 1 to 20 even number on screen.
2   * Terminate the program when number 16 is found using break command
3   */
4  package day5_assignment;
5
6  public class Practice_23 {
7
8      public static void main(String[] args) {
9          for(int i=1;i<=20;i++)
10         {
11             if(i%2==0&&i!=16)
12             {
13                 System.out.print(i+",");
14             }
15             if(i==16)
16             {
17                 break;
18             }
19         }
20     }
21 }
22
```

Console ✕   ▣ ✖ ✖
<terminated> Practice_23 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Mar 26, 2023, 7:07:55 PM – 7:08:03 PM) [pid: 11940
2,4,6,8,10,12,14,

```
1⊖ /*WAP accepts two double variables and test
2  *  if both strictly between 0 and 1 and false otherwise.
3  */
4  package day5_assignment;
5  import java.util.Scanner;
6
7  public class Practice_24 {
8
9⊖     public static void main(String[] args) {
10          Scanner in = new Scanner(System.in);
11          System.out.print("Input first number: ");
12          double n1 = in.nextDouble();
13          System.out.print("Input second number: ");
14          double n2 = in.nextDouble();
15          System.out.println(n1 > 0 && n1 < 1 && n2 > 0 && n2 < 1);
16      }
17  }
18
19
20
```

Console ✕

<terminated> Practice_24 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Mar 26, 2023, 6:11:38 PM – 6:11:59 PM) [pid: 2548]

```
Input first number: 10
Input second number: 25
false
```

submitted by - simran meena