1.WAP to accept a number from the user and calculate even or odd.

```
import java.util.Scanner;

class CheckEvenOdd
{
   public static void main(String args[])
   {
      int num;
      System.out.println("Enter an Integer number:");

      //The input provided by user is stored in num
      Scanner input = new Scanner(System.in);
      num = input.nextInt();

      /* If number is divisible by 2 then it's an even number
      * else odd number*/
      if ( num % 2 == 0 )
            System.out.println("Entered number is even");
      else
            System.out.println("Entered number is odd");
    }
}
```

# OUTPUT

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```
D:\Java_Homework>java CheckEvenOdd
Enter an Integer number:
56
Entered number is even
```

2. WAP to accept a number from the user and check whether the number is palindrome or not.

```
PS D:\Java_Homework> javac Palindrome.java
PS D:\Java_Homework> java Palindrome
121 is a palindrome.
```

3. WAP to accept a number from the user and check whether the number is armstrong or not.

```
PS D:\Java_Homework> javac .\Armstrong.java
PS D:\Java_Homework> java Armstrong
armstrong number
```

4. WAP to accept a number from the user and check whether the number is prime or not.

```
public class Primenumber{
    public static void main(String args[]) {
        int i,m=0,flag=0;
        int n=3;//it is the number to be checked
        m=n/2;
        if(n==0||n==1) {
            System.out.println(n+" is not prime number");
        }else {
            for(i=2;i<=m;i++) {
                if(n%i==0) {
                  System.out.println(n+" is not prime number");
                flag=1;
                break;
            }
            if(flag==0) { System.out.println(n+" is prime number"); }
            //end of else
        }
    }
}</pre>
```

```
PS D:\Java_Homework> javac .\Primenumber.java
PS D:\Java_Homework> java Primenumber
3 is prime number
PS D:\Java_Homework> []
```

5. WAP to accept a base and exponent and calculate the power

```
public class Power {

public static void main(String[] args) {

  int base = 3, exponent = 4;

  long result = 1;

  while (exponent != 0)
  {

    result *= base;

    --exponent;
  }

  System.out.println("Answer = " + result);
}
```

```
PS D:\Java_Homework> javac Power.java
PS D:\Java_Homework> java Power
Answer = 81
```

6.WAP to accept a number from the user and check whether the number is armstrong or not.

```
PS D:\Java_Homework> javac Armstrong.java
PS D:\Java_Homework> java Armstrong
Not armstrong number
```

7.WAP to accept rollno, name, marks of 3 subject and calculate percentage and grade(Distiction, First class, Second class, Pass class or FAIL).

```
import java.util.Scanner;
public class ResultChecker
   public static void main(String args[])
        int marks[] = new int[6];
        float total=0, avg;
        Scanner scanner = new Scanner(System.in);
           System.out.print("Enter Marks of Subject"+(i+1)+":");
           marks[i] = scanner.nextInt();
           total = total + marks[i];
        scanner.close();
        avg = total/3;
        if(avg>=80)
            System.out.print("A");
        else if (avg >= 60 \&\& avg < 80)
           System.out.print("B");
        else if(avg>=40 \&\& avg<60)
            System.out.print("C");
            System.out.print("D");
```

```
Enter Marks of Subject2:50
Enter Marks of Subject3:50
The student Grade is: C
PS D:\Java_Homework> javac .\ResultChecker.java
PS D:\Java Homework> java ResultChecker
Enter Marks of Subject1:75
Enter Marks of Subject2:75
Enter Marks of Subject3:75
The student Grade is: B
PS D:\Java Homework> javac .\ResultChecker.java
PS D:\Java_Homework> java ResultChecker
Enter Marks of Subject1:90
Enter Marks of Subject2:90
Enter Marks of Subject3:90
The student Grade is: A
PS D:\Java_Homework≻ [
```

8.WAP to accept three number from the user and print maximum and minimum number.

```
Enter Marks of Subject2:50
Enter Marks of Subject3:50
The student Grade is: C
PS D:\Java_Homework> javac .\ResultChecker.java
PS D:\Java_Homework> java ResultChecker
Enter Marks of Subject1:75
Enter Marks of Subject2:75
Enter Marks of Subject3:75
The student Grade is: B
PS D:\Java_Homework> javac .\ResultChecker.java
PS D:\Java_Homework> java ResultChecker
Enter Marks of Subject1:90
Enter Marks of Subject2:90
Enter Marks of Subject3:90
The student Grade is: A
PS D:\Java_Homework> []
```

9. WAP to accept a number and print the multiplication table of a number.

```
import java.util.Scanner;
public class Multiply
{
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);
        System.out.print("Enter number:");
        int n=s.nextInt();
        for(int i=1; i <= 10; i++)
        {
             System.out.println(n+" * "+i+" = "+n*i);
        }
    }
}</pre>
```

```
PS D:\Java_Homework> javac .\Multiply.java
PS D:\Java_Homework> java Multiply
Enter number:3
3 * 1 = 3
3 * 2 = 6
3 * 3 = 9
3 * 4 = 12
3 * 5 = 15
3 * 6 = 18
3 * 7 = 21
3 * 8 = 24
3 * 9 = 27
3 * 10 = 30
```