

Question1.

```
import java.util.Scanner;
public class OnE{
    public static void main(String[] args){
        Scanner input = new Scanner(System.in);

        //Declaring Variables
        int n;
        System.out.print("Enter a number : ");
        n = input.nextInt();

        //Using for loop
        for(int i = 1; i <= n; i++){
            if(i%2 == 0){
                System.out.println(i+ " is an even number.");
            }else{
                System.out.println(i+ " is an odd number.");
            }
        }
    }
}
```

Solution

```
Microsoft Windows [Version 10.0.22631.4974]
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C:\Users\HP\Downloads\java challanges and coding questions\control flow>javac OnE.java

C:\Users\HP\Downloads\java challanges and coding questions\control flow>java OnE
Enter a number : 12
1 is an odd number.
2 is an even number.
3 is an odd number.
4 is an even number.
5 is an odd number.
6 is an even number.
7 is an odd number.
8 is an even number.
9 is an odd number.
10 is an even number.
11 is an odd number.
12 is an even number.

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```

Question2

```
import java.util.Scanner;
public class Bonus{
    public static void main(String[] args){
        Scanner input = new Scanner(System.in);

        //Declaring Variables
        double salary, year, bonus, new_salary;
        System.out.print("Enter the salary : ");
        salary = input.nextDouble();
        System.out.print("Enter the no. of year serviced : ");
        year = input.nextDouble();

        //Using conditional statements
        if(year > 5){
            bonus = (salary * 0.05);
            new_salary = salary + bonus;
            System.out.println("Salary with bonus : " +new_salary);
        }else{
            System.out.println("Since your service is less than 5
years, your salary remains respective : " +salary);
        }
    }
}
```

solution

```
C:\Users\HP\Downloads\java challanges and coding questions\control flow>javac Bonus.java
C:\Users\HP\Downloads\java challanges and coding questions\control flow>java Bonus
Enter the salary : 20000
Enter the no. of year serviced : 23
Salary with bonus : 21000.0
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```

Question3.

```
import java.util.Scanner;
public class MulTable{
    public static void main(String[] args){
        Scanner input = new Scanner(System.in);
```

```

        //Declaring variables
        int n,m;
        System.out.print("Enter a number from 6 to 9 : ");
        n = input.nextInt();

        //Using loops
        if(n >= 6 && n <= 9){
            for (int i = 1; i < 11; i++){
                m=n*i;
                System.out.println(n+ " x " +i+ " = " +m);
            }
        }else{
            System.out.println("You haven't entered a number from 6 to
9");
        }
    }
}

```

Solution

```

C:\Users\HP\Downloads\java challanges and coding questions\control flow>java MulTable
Enter a number from 6 to 9 : 7
7 x 1 = 7
7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 7 = 49
7 x 8 = 56
7 x 9 = 63
7 x 10 = 70
C:\Users\HP\Downloads\java challanges and coding questions\control flow>

```

Question4.

```

import java.util.Scanner;

public class FizzBuzz{
    public static void main(String[] args){
        Scanner input = new Scanner(System.in);

        //Declaring variable
        int n;
        System.out.print("Enter a number : ");
        n = input.nextInt();

        //Using loops
        for (int i = 1; i < n+1; i++){
            if(i%3==0 && i%5==0){

```

```

        System.out.println("FizzBuzz");
        continue;
    }
    if(i%3 == 0){
        System.out.println("Fizz");
        continue;
    }
    if(i%5 == 0){
        System.out.println("Buzz");
        continue;
    }
    else{
        System.out.println(i);
    }
}
}
}

```

Output

```

C:\Users\HP\Downloads\java challanges and coding questions\control flow>java FizzBuzz
Enter a number : 12
1
2
Fizz
4
Buzz
Fizz
7
8
Fizz
Buzz
11
Fizz
C:\Users\HP\Downloads\java challanges and coding questions\control flow>

```

Question5

```

import java.util.Scanner;
public class FizzBuzz2{
    public static void main(String[] args){
        Scanner input = new Scanner(System.in);

        //Declaring variable
        int n;
        System.out.print("Enter a number : ");
        n = input.nextInt();

        int i = 1;
    }
}

```

```

//Using while loop
while(i <= n){
    if(i%3==0 && i%5==0){
        System.out.println("FizzBuzz");
        continue;
    }
    if(i%3 == 0){
        System.out.println("Fizz");
        continue;
    }
    if(i%5 == 0){
        System.out.println("Buzz");
        continue;
    }
    else{
        System.out.println(i);
    }
    i++;
}
}
}

```

Output

```

C:\Users\HP\Downloads\java challanges and coding questions\control flow>javac FizzBuzz2.java
C:\Users\HP\Downloads\java challanges and coding questions\control flow>java FizzBuzz2
Enter a number : 1
1
C:\Users\HP\Downloads\java challanges and coding questions\control flow>|

```

Question6

```

import java.util.Scanner;
public class Young{
    public static void main(String[] args){
        Scanner input = new Scanner(System.in);

        //Declaring variables and taking user input
    }
}

```

```

int age1,age2,age3,h1,h2,h3;
System.out.print("Enter the age of Amar : ");
age1 = input.nextInt();
System.out.print("Enter the height of Amar : ");
h1 = input.nextInt();
System.out.print("Enter the age of Akbar : ");
age2 = input.nextInt();
System.out.print("Enter the height of Akbar : ");
h2 = input.nextInt();
System.out.print("Enter the age of Anthony : ");
age3 = input.nextInt();
System.out.print("Enter the height of Anthony : ");
h3 = input.nextInt();

//Using conditional statements
if(age1 < age2 && age1 < age3){
    System.out.println("Amar is the youngest.");
}
else if(age2 < age1 && age2 < age3){
    System.out.println("Akbar is the youngest.");
}
else{
    System.out.println("Anthony is the youngest.");
}

if(h1 > h2 && h1 > h3){
    System.out.println("Amar is the tallest.");
}
else if(h2 > h1 && h2 > h3){
    System.out.println("Akbar is the tallest.");
}
else{
    System.out.println("Anthony is the tallest.");
}
}
}

```

Output;

```
C:\Users\HP\Downloads\java challanges and coding questions\control flow>java Young
Enter the age of Amar : 12
Enter the height of Amar : 23
Enter the age of Akbar : 14
Enter the height of Akbar : 2
Enter the age of Anthony : 3
Enter the height of Anthony : 5
Anthony is the youngest.
Amar is the tallest.

C:\Users\HP\Downloads\java challanges and coding questions\control flow>
```

Question7:

```
import java.util.Scanner;

public class Factors{

    public static void main(String[] args){

        Scanner input = new Scanner(System.in);

        //Declaring variables
        int n;

        System.out.print("Enter a number : ");
        n = input.nextInt();

        //Using for loop
        for (int i = 1; i <= n; i++){
            if( n % i == 0){
                System.out.println(i);
            }
        }
    }
}
```

Output

```
C:\Users\HP\Downloads\java challanges and coding questions\control flow>java Factors
Enter a number : 12
1
2
3
4
6
12

C:\Users\HP\Downloads\java challanges and coding questions\control flow>
```

Question8:

```
import java.util.Scanner;

public class GreatestFactors{

    public static void main(String[] args){

        Scanner input = new Scanner(System.in);
```

```

        //Declaring variables
        int n,gf;
        System.out.print("Enter a number : ");
        n = input.nextInt();

        //Using for loop
        for(int i = n-1; i > 1; i--){
            if(n%i == 0){
                gf = i;
                System.out.println("Greatest Factor : " +gf);
                break;
            }
        }
    }
}

```

Output

```

C:\Users\HP\Downloads\java challanges and coding questions\control flow>javac GreatestFactors.java
C:\Users\HP\Downloads\java challanges and coding questions\control flow>java GreatestFactors
Enter a number : 24
Greatest Factor : 12
C:\Users\HP\Downloads\java challanges and coding questions\control flow>

```

Question9:

```

import java.util.Scanner;
public class Power{
    public static void main(String[] args){
        Scanner input = new Scanner(System.in);

        //Declaring variables
        int n,power,result=1;
        System.out.print("Enter a number : ");
        n = input.nextInt();
        System.out.print("Enter the power : ");
        power = input.nextInt();

        //Using for loop
        for(int i = 1; i<=power; i++){

```



```

        result = result*n;
    }
    System.out.println("The result is : " +result);
}
}

```

Output

```

C:\Users\HP\Downloads\java challanges and coding questions\control flow>javac Power.java
C:\Users\HP\Downloads\java challanges and coding questions\control flow>java Power
Enter a number : 12
Enter the power : 2
The result is : 144
C:\Users\HP\Downloads\java challanges and coding questions\control flow>

```

Question 10:

```

import java.util.Scanner;
public class Multiple{
    public static void main(String[] args){
        Scanner input = new Scanner(System.in);

        //Declaring variable
        int n;
        System.out.print("Enter a number : ");
        n = input.nextInt();

        //Using for loop
        for(int i = 100; i >= 1; i--){
            if(i%n == 0){
                System.out.println(i);
            }
        }
    }
}

```

Output

```
C:\Users\HP\Downloads\java challanges and coding questions\control flow>java Multiple
Enter a number : 12
96
84
72
60
48
36
24
12

C:\Users\HP\Downloads\java challanges and coding questions\control flow>|
```