

Figure 1:Qn1

```
1  ▶ public class Main
2      {
3  ▶      public static void main(String[] args)
4          {
5              for(int i=1;i<=50;i++){
6                  if(i%3==0 ^ i%5==0){
7                      System.out.println(i);
8                  }
9              }
10         }
11     }
```

Figure 2:Output of Qn1

```
"C:\Program Files\Java\jdk-17\bin\java.exe" "  
3  
5  
6  
9  
10  
12  
18  
20  
21  
24  
25  
27  
33  
35  
36  
39  
40  
42  
48  
50
```

Figure 3:Qn2

```
1  import java.util.Scanner;
2  public class Main
3  {
4      public static void main(String[] args)
5      {
6          Scanner sc = new Scanner(System.in);
7          System.out.print("Enter a number:");
8          int n= sc.nextInt();
9          System.out.println("The numbers from 1 to " + n + " excluding multiple of 4 are:");
10
11         for(int i=1;i<=n;i++){
12             if(i%4!=0){
13                 System.out.println(i);
14             }
15         }
16     }
17 }
```

Figure 4:Output of Qn2

```
"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Program
Enter a number:20
The numbers from 1 to 20 excluding multiple of 4 are:
1
2
3
5
6
7
9
10
11
13
14
15
17
18
19

Process finished with exit code 0
```

Figure 5:Qn 3

```
1  ▶ public class Main
2      {
3  ▶      public static void main(String[] args)
4          {
5              for(int i=1;i<=30;i++)
6              {
7                  if(i%3==0 && i%5==0)
8                  {
9                      System.out.println("FizzBuzz");
10                 }
11                 else if(i%3==0)
12                 {
13                     System.out.println("Fizz");
14                 }
15                 else if(i%5==0)
16                 {
17                     System.out.println("Buzz");
18                 }
19                 else
20                     System.out.println(i);
21             }
22         }
23     }
24
```

Figure 6: Output of Qn3

```
"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:  
1  
2  
Fizz  
4  
Buzz  
Fizz  
7  
8  
Fizz  
Buzz  
11  
Fizz  
13  
14  
FizzBuzz  
16  
17  
Fizz  
19  
Buzz  
Fizz  
22  
23  
Fizz  
Buzz  
26  
Fizz  
28  
29  
FizzBuzz
```

Figure 7:Qn 4

```
1  import java.util.Scanner;
2  public class Main
3  {
4      public static void main(String[] args)
5      {
6          Scanner sc= new Scanner(System.in);
7          System.out.println("This program will run for 10 iteration.");
8          for(int i=0;i<10;i++)
9          {
10             System.out.print("Enter a number:");
11             int n=sc.nextInt();
12             if(n%2==0 && n>20)
13             {
14                 System.out.println("The entered number is even and greater than 20.");
15             }
16             else
17                 System.out.println("The entered number is not both even and greater than 20.");
18             }
19         }
20     }
21 }
```

Figure 8: Output of Qn 4

```
This program will run for 10 iteration.  
Enter a number:1  
The entered number is not both even and greater than 20.  
Enter a number:20  
The entered number is not both even and greater than 20.  
Enter a number:21  
The entered number is not both even and greater than 20.  
Enter a number:22  
The entered number is even and greater than 20.  
Enter a number:24  
The entered number is even and greater than 20.  
Enter a number:26  
The entered number is even and greater than 20.  
Enter a number:30  
The entered number is even and greater than 20.  
Enter a number:340  
The entered number is even and greater than 20.  
Enter a number:111  
The entered number is not both even and greater than 20.  
Enter a number:114  
The entered number is even and greater than 20.  
  
Process finished with exit code 0
```

Figure 9:Qn5

```
1  public class Main
2  {
3      public static void main(String[] args)
4      {
5          int evenSum=0;
6          int oddProduct=1;
7          for(int i=1;i<=10;i++)
8          {
9              if(i%2==0)
10             {
11                 evenSum+=i;
12             }
13             else
14                 oddProduct*=i;
15         }
16         System.out.println("The sum of all the even numbers between 1 and 10 is: "+evenSum);
17         System.out.println("The product of all the odd numbers between 1 and 10 is: "+oddProduct);
18     }
19 }
20 }
```

Figure 10:Output of Qn5

```
"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Program Fil
The sum of all the even numbers between 1 and 10 is: 30
The product of all the odd numbers between 1 and 10 is: 945
```

Figure 11: Qn6

```
1  public class Main
2  {
3      public static void main(String[] args)
4      {
5          for(int i=1;i<=30;i++)
6          {
7              if(i==15)
8                  System.out.println("Skip");
9              else if (i%4==0)
10                 System.out.println(i*2);
11             else
12                 System.out.println(i);
13         }
14         System.out.println("Done");
15     }
16 }
```

Figure 12: Output of Qn6

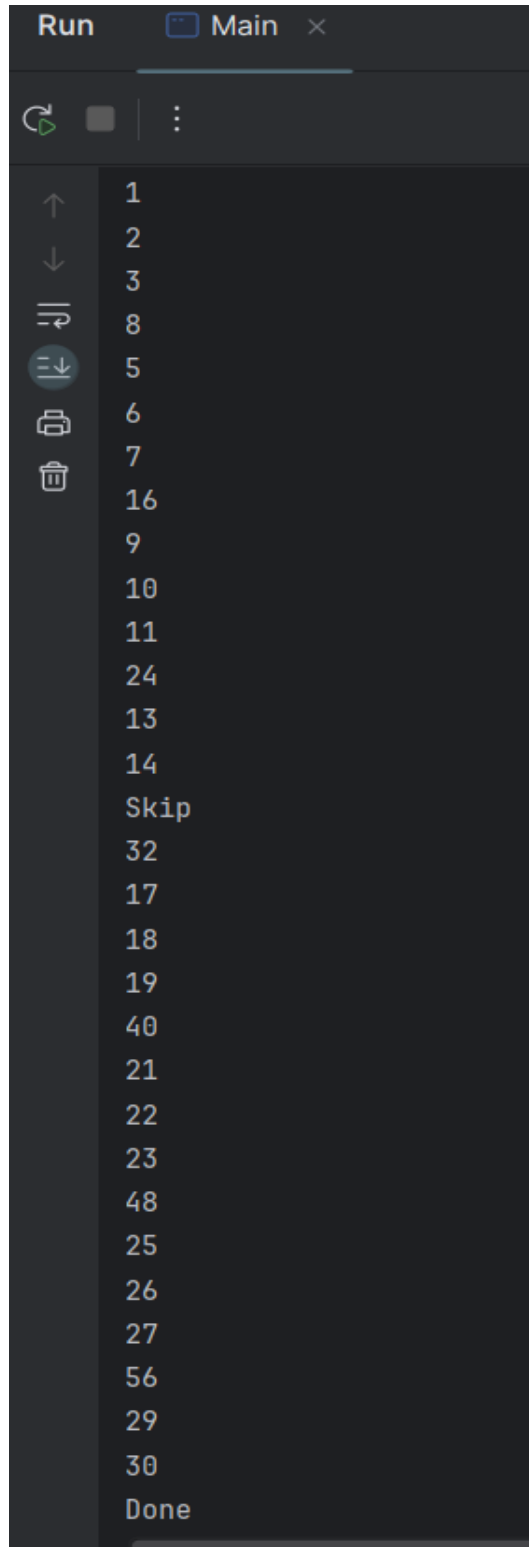


Figure 13: Qn 7

```
1  import java.util.Scanner;
2  public class Main
3  {
4      public static void main(String[] args)
5      {
6          Scanner sc= new Scanner(System.in);
7          int password=1234;
8          for(int i=3;i>=0;i--)
9          {
10             if (i>0)
11             {
12                 System.out.print("Enter your ATM pin:");
13                 if(sc.nextInt()==password)
14                 {
15                     System.out.println("Access Granted");
16                     break;
17                 }
18                 else
19                     System.out.println("Incorrect PIN, Try again");
20             }
21             else
22                 System.out.println("Account Locked");
23         }
24     }
25 }
26
27
28
29
```

Figure 14: Output 1 of Qn7

```
"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Pro  
Enter your ATM pin:4567  
Incorrect PIN, Try again  
Enter your ATM pin:7890  
Incorrect PIN, Try again  
Enter your ATM pin:4321  
Incorrect PIN, Try again  
Account Locked  
  
Process finished with exit code 0
```

Figure 15:Output 2 of Qn7

```
"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Program Files\Jet  
Enter your ATM pin:4567  
Incorrect PIN, Try again  
Enter your ATM pin:4321  
Incorrect PIN, Try again  
Enter your ATM pin:1234  
Access Granted  
  
Process finished with exit code 0  
|
```