

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            {
21                System.out.println(i);
22            }
23        }
24 }
```

Figure 6: Output of Qn3

```
"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Users\DELL\IdeaProjects\FizzBuzz\target\javaagent\fizzbuzz.jar" "com.fizzbuzz.FizzBuzz"
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 D public class Main
2 {
3 D     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     }
15 }
```

Figure 12: Output of Qn6

The screenshot shows a terminal window titled "Main". The window contains the following text:

```
Run Main ×  
⟳ | :  
↑ 1  
↓ 2  
⤻ 3  
⤻ 8  
⤻ 5  
⤻ 6  
⤻ 7  
⤻ 16  
⤻ 9  
⤻ 10  
⤻ 11  
⤻ 24  
⤻ 13  
⤻ 14  
⤻ Skip  
⤻ 32  
⤻ 17  
⤻ 18  
⤻ 19  
⤻ 40  
⤻ 21  
⤻ 22  
⤻ 23  
⤻ 48  
⤻ 25  
⤻ 26  
⤻ 27  
⤻ 56  
⤻ 29  
⤻ 30  
⤻ Done
```

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             }
22             else
23                 System.out.println("Account Locked");
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
```