

**Logical Questions:**

**PRN:046**

**Q1)**

**CODE 1:**

```
import java.util.*;  
  
class Main {  
  
    public static void main(String[] args) {  
  
        Scanner sc=new Scanner(System.in);  
  
        System.out.println("enter the number");  
  
        int num=sc.nextInt();  
  
        if(num%3==0 && num%7==0){  
  
            System.out.println("fun buzz");  
  
        }else if(num%3==0){  
  
            System.out.println("fun ");  
  
        }else if(num%7==0){  
  
            System.out.println("buzz ");  
  
        }  
    }  
}
```

**CODE 2:**

```
import java.util.*;  
  
class Main {  
  
    public static void main(String[] args) {  
  
        Scanner sc=new Scanner(System.in);  
  
        System.out.println("enter the number");  
  
        int num=sc.nextInt();  
  
        if(num%3==0){  
  
            System.out.print("fun ");  
  
        }  
    }  
}
```

```
    }  
  
    if(num%7==0){  
        System.out.print("buzz ");  
    }  
}  
}
```

Q2)

```
import java.util.*;  
  
class Main {  
  
    public static void main(String[] args) {  
  
        System.out.println("enter the start no:");  
  
        Scanner sc=new Scanner(System.in);  
  
        int start=sc.nextInt();  
  
        System.out.println("enter the end no:");  
  
        int end=sc.nextInt();  
  
        System.out.println("the odd numbers between "+start+" and "+end +" are:");  
  
        for(int i=start;i<=end;i++){  
  
            if(i%2!=0){  
  
                System.out.print(i+" ");  
            }  
        }  
    }  
}
```

Q 3)

```

import java.util.*;
class Main {
    public static void main(String[] args) {
        System.out.println("enter the no top check palindrome or not");
        Scanner sc=new Scanner(System.in);
        int num=sc.nextInt();

        int temp=num;
        int rev=0;
        while(num>0){
            int lastdig=num%10;
            rev=rev*10+lastdig;
            num /=10;

        }
        if(rev==temp){
            System.out.println("the number is palindrom");
        }else{
            System.out.println("the number is not a palindrom");
        }
    }
}

```

**Q4)**

```

import java.util.*;
class Main {

```

```
public static void main(String[] args) {  
    System.out.println("enter the no of terms:");  
    Scanner sc=new Scanner(System.in);  
    int s=sc.nextInt();  
    int a,b,c;  
    a=0;  
    b=1;  
    if(s<0){  
        System.out.println("enter the valid positive range");  
    }else if(s==1){  
        System.out.print(a+" ");  
    }  
    else if(s==2){  
        System.out.print(a+" "+b);  
    }  
    else{  
        System.out.print(a+" "+b);  
        for(int i=3;i<=s;i++){  
            c=a+b;  
            System.out.print(" "+c);  
            a=b;  
            b=c;  
        }  
    }  
}
```