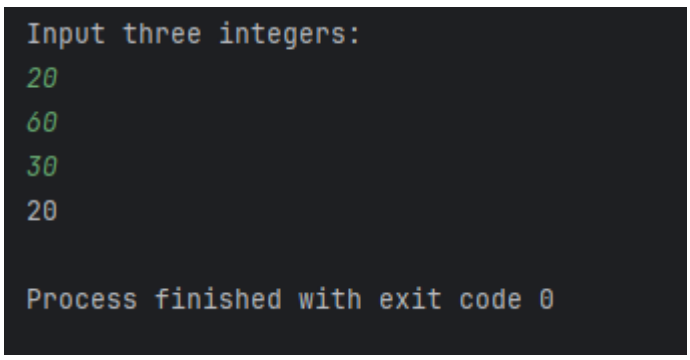
Q1.

Code:

```
package Q_01;

import java.util.Scanner;

public class Q1 {
   public static void main(String[] args) {
      Scanner scan=new Scanner(System.in);
      System.out.println("Input three integers:");
      int num1=scan.nextInt();
      int num2=scan.nextInt();
      int num3= scan.nextInt();

      int smallest=num1;
      if(num2<smallest){
         smallest=num2;
      }
      if(num3<smallest){
         smallest=num3;
      }
      System.out.println(smallest);
   }

}
```

Output:



Q2.

Code:

```
package Q_02;
import java.util.Scanner;

public class Q2 {
  public static void main(String[] args) {
    Scanner scanner=new Scanner(System.in);
    System.out.println("0.Magenta");
    System.out.println("1.Cyan");
    System.out.println("2.Red");
    System.out.println("3.Blue");
    System.out.println("4.Green");


        System.out.println("Select one color from the above list:");
        System.out.println("Enter the number between 0-4");
        int number=scanner.nextInt();
        String selection;

        switch (number){
          case 1:
            selection="Magenta";
            break;
          case 2:
            selection="Cyan";
            break;
          case 3:
            selection="Red";
            break;
          case 4:
            selection="Blue";
            break;
          case 5:
            selection="Green";
            break;
          default:
            selection=null;

        }
```

```
            if(selection==null){
                System.out.println("invalid selection");
            }
            else{
                System.out.println("your selection "+selection);
            }

        }
    }
```

Output:

```
0.Magenta
1.Cyan
2.Red
3.Blue
4.Green
Select one color from the above  list:
Enter the number between 0-4
4
your selection Blue

Process finished with exit code 0
```

Q3.

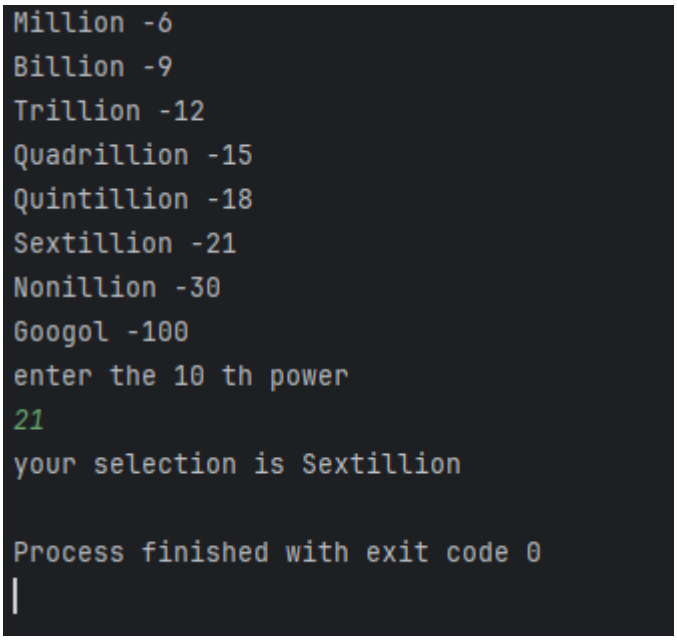
Code:

```
package Q_03;

import java.util.Scanner;

public class Q3 {
    public static void main(String[] args) {
        Scanner scanner=new Scanner(System.in);
        System.out.println("Million -6");
        System.out.println("Billion -9");
        System.out.println("Trillion -12");
```

```
        System.out.println("Quadrillion -15");
        System.out.println("Quintillion -18");
        System.out.println("Sextillion -21");
        System.out.println("Nonillion -30");
        System.out.println("Googol -100");
        System.out.println("enter the 10 th power");
        int power=scanner.nextInt();

        String message;
        switch (power){
          case 6:
            message="Million";
            break;
          case 9:
            message="Billion";
            break;
          case 12:
            message="Trillion";
            break;
          case 15:
            message="Quadrillion";
            break;
          case 18:
            message="Quintillion";
            break;
          case 21:
            message="Sextillion";
            break;
          case 30:
            message="Nonillion";
            break;
          case 100:
            message="Googol";
            break;
          default:
            message=null;
            break;
        }
        if(message==null){
          System.out.println("invalid selection");
        }
```

```
    else{
      System.out.println("your selection is "+message);
    }

  }

}
```

Output:



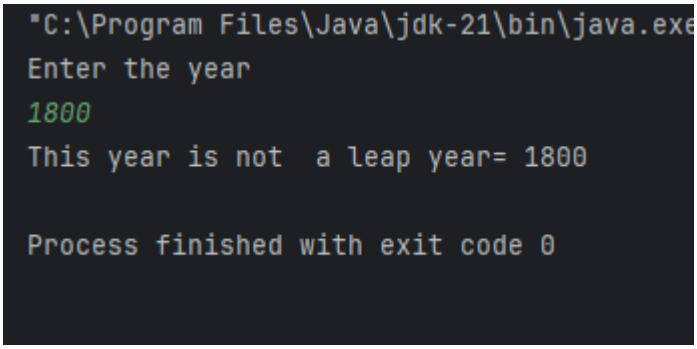
Q4.

Code:

```
package Q_04;

import java.util.Scanner;

public class Q_04 {
   public static void main(String[] args) {
      Scanner scanner=new Scanner(System.in);
      System.out.println("Enter the year ");
      int year=scanner.nextInt();
      boolean isLeapYear=false;

      if(year%4==0){
         if(year%400==0 || year%100!=0){
```

```
            isLeapYear=true;

        }

    }
    if(isLeapYear){
        System.out.println("This year is a leap year= "+year);
    }
    else{
        System.out.println("This year is not  a leap year= "+year);
    }
  }
}
```

Output:



Q5.

Code:

```
package Q_05;

import java.util.Scanner;

public class Q5 {
   public static void main(String[] args) {
      Scanner scanner=new Scanner(System.in);
      System.out.println("Tofu Burger-$3.49");
      System.out.println("Cajun Chicken-$4.59 ");
      System.out.println("Buffalo Wings-$3.99");
      System.out.println("Rainbow Fillet -$2.99");
```

```
System.out.println("enter the number between 1-4(entree)");
int number= scanner.nextInt();

String food;
float price =0;
switch (number){
   case 1:
      food="Tofu Burger";
      price= 3.49F;
      break;
   case 2:
      food="Cajun Chicken";
      price= 4.59F;
      break;
   case 3:
      food="Buffalo Wings";
      price= 3.99F;
      break;
   case 4:
      food="Rainbow Fillet";
      price= 2.99F;
      break;
   default:
      food=null;
      break;


}
if(food==null){
   System.out.println("invalid input");
}
else{
   System.out.println("the entree is "+food+" "+"$"+price);
}


System.out.println("Rice Cracker -$0.79");
System.out.println("No-Salt Fries -$0.69 ");
System.out.println("Zucchini-$1.09");
System.out.println("Brown Rice -$0.59");
```

```
System.out.println("enter the number between 1-4(Side Dish)");
int number1= scanner.nextInt();

String side_Dish;
float price1 =0;
switch (number1){
   case 1:
      side_Dish="Rice Cracker";
      price1= 0.79F;
      break;
   case 2:
      side_Dish="No-Salt Fries ";
      price1= 0.69F;
      break;
   case 3:
      side_Dish="Zucchini ";
      price1= 1.09F;
      break;
   case 4:
      side_Dish="Brown Rice";
      price1= 0.59F;
      break;
   default:
      side_Dish=null;
      break;


}
if(side_Dish==null){
   System.out.println("invalid input");
}
else{
   System.out.println("the Side Dish is "+side_Dish+" "+"$"+price1);
}


System.out.println("Cafe Mocha -$1.99");
System.out.println("Cafe Latte -$1.90 ");
System.out.println("Espresso-$2.49");
System.out.println("Oolong Tea  -$0.99");
```

```
        System.out.println("enter the number between 1-4(Drink)");
        int number2= scanner.nextInt();

        String Drink;
        float price2 =0;
        switch (number2){
          case 1:
            Drink="Cafe Mocha";
            price2= 1.99F;
            break;
          case 2:
            Drink=" Cafe Latte  ";
            price2= 1.90F;
            break;
          case 3:
            Drink=" Espresso ";
            price2= 2.49F;
            break;
          case 4:
            Drink=" Oolong Tea";
            price2= 0.99F;
            break;
          default:
            Drink=null;
            break;


        }
        if(Drink==null){
          System.out.println("invalid input");
        }
        else{
          System.out.println("the Drink is "+Drink+" "+"$"+price2);
        }


      }
    }
```

Output:

```
Tofu Burger-$3.49
Cajun Chicken-$4.59
Buffalo Wings-$3.99
Rainbow Fillet -$2.99
enter the number between 1-4(entree)
2
the entree is Cajun Chicken $4.59
Rice Cracker -$0.79
No-Salt Fries -$0.69
Zucchini-$1.09
Brown Rice -$0.59
enter the number between 1-4(Side Dish)
3
the Side Dish is Zucchini  $1.09
Cafe Mocha -$1.99
Cafe Latte -$1.90
Espresso-$2.49
Oolong Tea  -$0.99
enter the number between 1-4(Drink)
2
the Drink is  Cafe Latte   $1.9
```