Implement a program using basic programming constructs like Branching and Looping

1} while loop

```
class Whileloop

{

    public static void main(String args[])

            {

                int a=4;

                while(a%2==0)

                {

                  System.out.println("\n Number is even");

                  break;

                }

            }

}
```
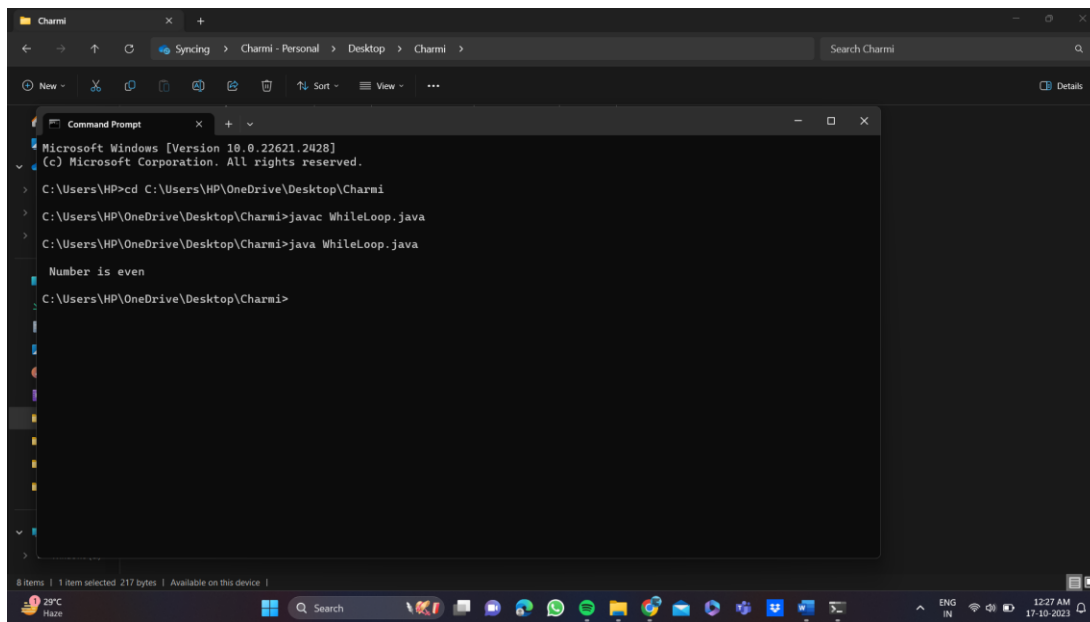
2} for loop

```
class Forloop

{

    public static void main(String args[])

        {

            int x;

            for(x=1;x<=10;x++)

            {

                System.out.println(x);

            }

        }

}
```
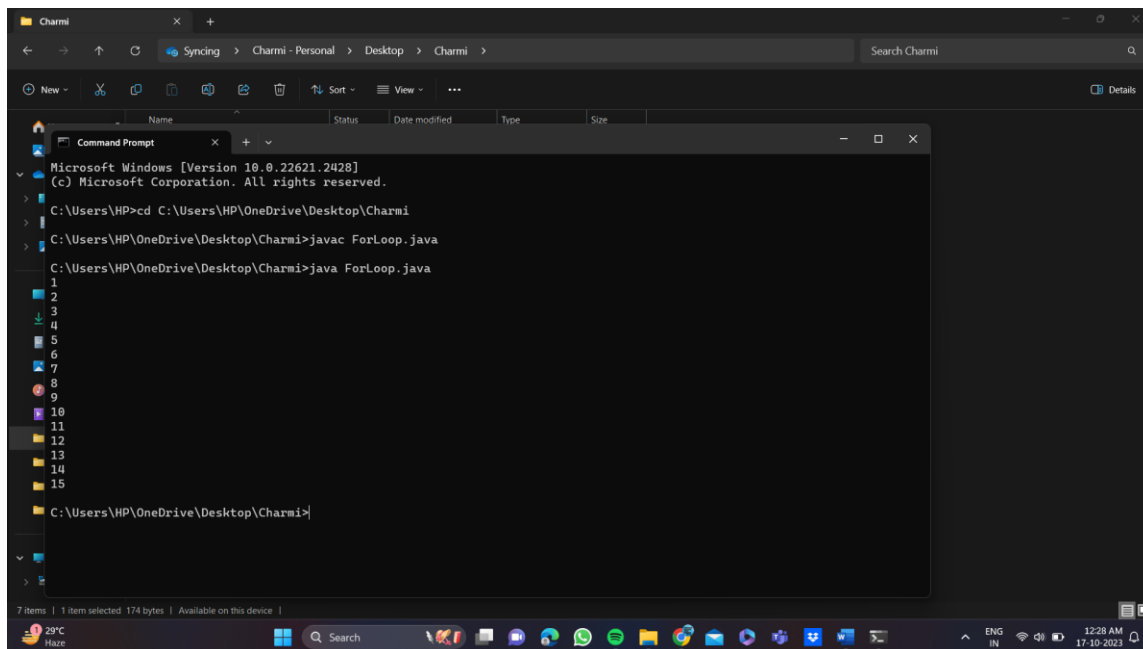
3} dowhile loop

class Dowhileloop

{

    public static void main(String arg[])

  {

int a=0;

  do

 {

  if(a%20==0)

  {

   System.out.println(a);

  } a++;

```
} while(a<=100);

  }

}
```


4}if else

```
public class IfElseExample {

public static void main(String[] args) {

    int number=10;

        if(number%2==0){

        System.out.println("Even number");

    }else{

        System.out.println("Odd number");

    }
```
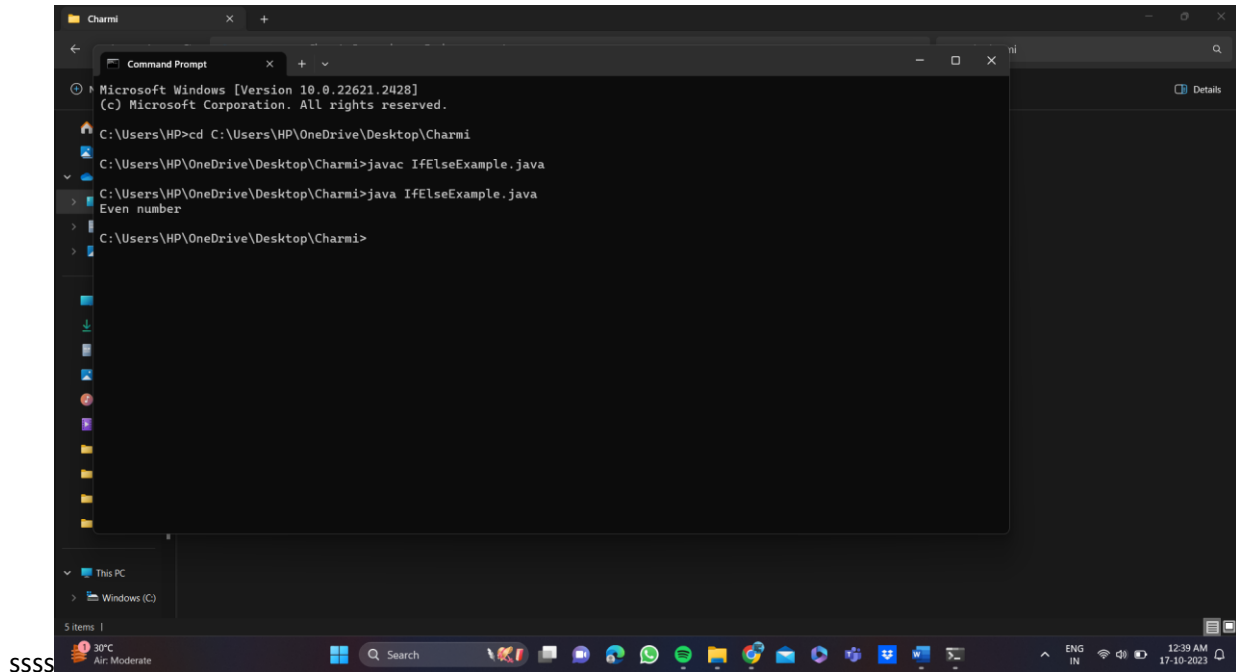
```
}

}
```

5} Ladder if else

```
class SecJavaProgram

{

 public static void main(String args[])

{

  int a=90;

if(a>=90)

{

System.out.println("grade A");
```
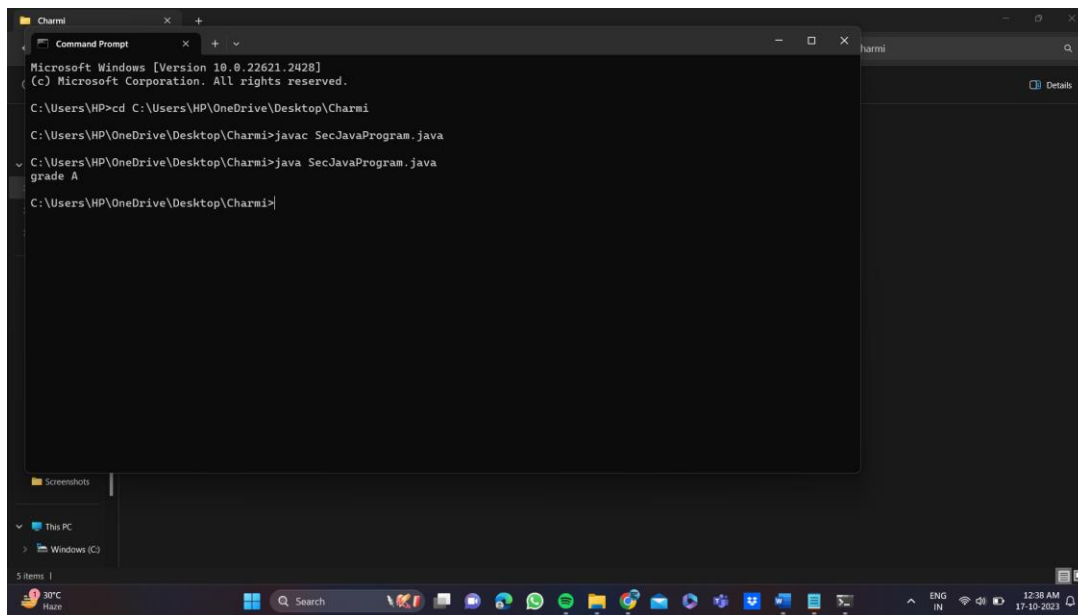
```java
}
else if(a>=80)
{
System.out.println("grade B");
}
else if(a>=70)
{
System.out.println("grade c");
}
else if(a<70)
{
System.out.println("grade F");
}
}
}
```

```
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>cd C:\Users\HP\OneDrive\Desktop\Charmi

C:\Users\HP\OneDrive\Desktop\Charmi>javac SecJavaProgram.java

C:\Users\HP\OneDrive\Desktop\Charmi>java SecJavaProgram.java
grade A

C:\Users\HP\OneDrive\Desktop\Charmi>
```

6} nested if else

```java
public class PositiveNegativeExample {

public static void main(String[] args) {

    int number=15;

    if(number>0){

    System.out.println("POSITIVE");

    }else if(number<0){

    System.out.println("NEGATIVE");

    }else{

    System.out.println("ZERO");

    }

}
```

}
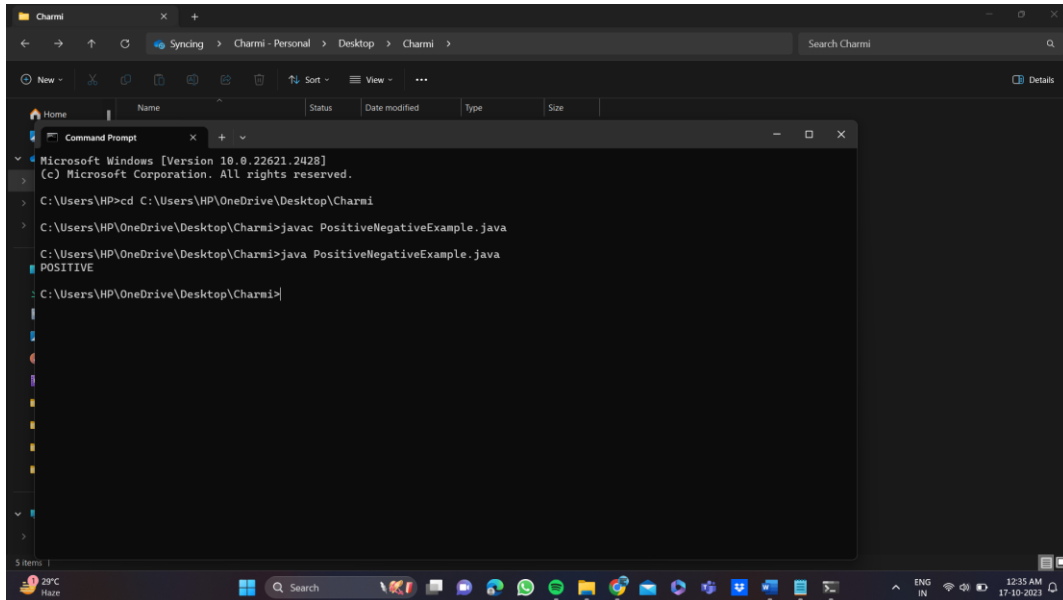
7} switch

class SwitchProgram

{

  public static void main(String args[])

       {

         int a = 1 ;

         switch(a)

         {

         case 1 :

            System.out.println("\n Monday");

            break;

```java
case 2 :

    System.out.println("\n Tuesday");

    break;

case 3 :

    System.out.println("\n Wednesday");

    break;

case 4 :

    System.out.println("\n Thursday");

    break;

case 5 :

    System.out.println("\n Friday");

    break;

case 6 :

    System.out.println("\n Saturday");

    break;

case 7 :

    System.out.println("\n Sunday");

    break;

default :
```
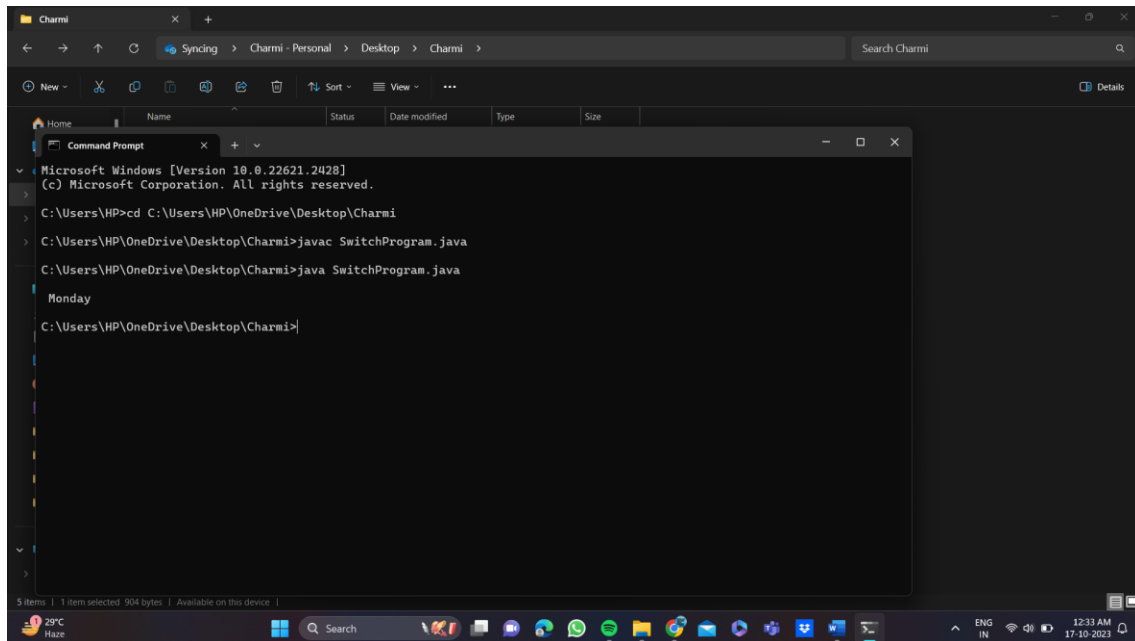
```
                    System.out.println("\n Not Valid");

            }

        }

}
```