

Q.1)Write a code for “ClassCastException” and handle it using Exception handling Mechanism.

=>try,catch,finally

```
package JavaSession14;

class Parent{
    public void hairColor(){

    }
}
class Child extends Parent{
    @Override
    public void hairColor() {
        System.out.println("Grey");
    }
}
public class HandlingClassCastException {
    public static void main(String[] args) {
        try{
            Parent p = new Child();
            Child c = (Child) new Parent();
            c.hairColor();
        }
        catch (Exception e){
            System.out.println(e);
        }
    }
}
```

2)try to add Numeric data in String data type then handle this exception

```
package JavaSession14;

import java.util.Scanner;

public class NumberFormatExceptionDemo {
    public static void main(String[] args) {
        int var_a;
        Scanner sc = new Scanner(System.in);
        try{
            System.out.println("Enter the value: ");
            var_a =sc.nextInt();
        }
        catch(Exception e){
            System.out.println("You can only enter an Integer");
        }
    }
}
```

```
}
```

Q.3

```
package JavaSession14;
```

```
import java.util.Scanner;
```

```
public class ABC {
```

```
    public static void main(String[] args) {
```

```
        int[] array = new int[10];
```

```
        int sum = 0;
```

```
        Scanner sc = new Scanner(System.in);
```

```
        try{
```

```
            for (int i = 0; i < 11; i++) {
```

```
                array[i] = sc.nextInt();
```

```
                sum = sum + array[i];
```

```
            }
```

```
        }
```

```
        catch(ArrayIndexOutOfBoundsException e){
```

```
            System.out.println(e);
```

```
            System.out.println("You must take only 10 elements");
```

```
        }
```

```
    }
```

```
}
```