

Correction TP05**Matière : ATELIER DEVELOPPEMENT MOBILE 1****Classes : SEM21**

package projet.com.prixvignette;

public class Automobile {

private static final int[][] TARIF_PHYSIQUE={{60,210,385},{120,270,445}};

private static final int[][] TARIF_MORALE={{120,270,445},{240,390,565}};

private String matricule;

private int type; // 0 : Personne physique 1 : Personne morale

private int puissance;

private String carburant;

public Automobile(String matricule, int type, int puissance, String carburant) {

this.matricule = matricule;

this.type = type;

this.puissance = puissance;

this.carburant = carburant;

}

public String getMatricule() {

return matricule;

}

public int getType() {

return type;

}

public int getPuissance() {

return puissance;

}

public String getCarburant() {

return carburant;

}

public int getPrix() {

int iP=0;

int iC=0;

iP=(puissance<=4)?0:1;

if(carburant.equalsIgnoreCase("Essence"))

iC=0;

else if(carburant.equalsIgnoreCase("Diesel"))

iC=1;

else

iC=2;

if (type == 0)

return TARIF_PHYSIQUE[iP][iC];

else

return TARIF_MORALE[iP][iC];

}

```

@Override
public String toString() {
    String strType = "";
    if (type == 0)
        strType = "Phy";
    else
        strType = "Mor";
    return matricule + "{" +
        strType +
        "- " + puissance + "CH"+
        "- "+ carburent +
        "- "+ getPrix() +"DT"+
        '}';
}
}

```

```

package projet.com.prixvignette;
//imports
public class MainActivity extends AppCompatActivity {
    private EditText edM;
    private Spinner spT;
    private SeekBar seekP;
    private RadioGroup rdgC;
    private RadioButton rdE;
    private Button btnA;
    private Button btnE;
    private Button btnV;
    private ListView lstA;
    private ArrayAdapter<Automobile> adpA;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        init();
    }
    private void init() {
        edM = findViewById(R.id.edM);
        spT = findViewById(R.id.spT);
        seekP = findViewById(R.id.seekP);
        rdgC = findViewById(R.id.rdgC);
        rdE = findViewById(R.id.rdE);
        btnA = findViewById(R.id.btnA);
        btnE = findViewById(R.id.btnE);
        btnV = findViewById(R.id.btnV);
        lstA = findViewById(R.id.lstA);
        adpA = new ArrayAdapter<Automobile>(this, android.R.layout.simple_list_item_1);
        lstA.setAdapter(adpA);
        effacer();
        ajouterEcouteurs();
    }
}

```

```

private void ajouterEcouleurs() {
    btnA.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            ajouter();
        }
    });
    btnE.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            effacer();
        }
    });
    btnV.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            vider();
        }
    });
    lstA.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
            afficher(position);
        }
    });
}

private void ajouter() {
    String m = edM.getText().toString();
    if (!m.isEmpty()) {
        int t = spT.getSelectedItemPosition();
        int p = seekP.getProgress();
        String c = "";
        switch (rdgC.getCheckedRadioButtonId()) {
            case R.id.rdE:
                c = "Essence";
                break;
            case R.id.rdD:
                c = "Diesel";
                break;
            case R.id.rdG:
                c = "GPL";
                break;
        }
        Automobile a = new Automobile(m, t, p, c);
        adpA.add(a);
        effacer();
    } else {
        Toast.makeText(this, "Tapez une matricule SVP!", Toast.LENGTH_LONG).show();
    }
}
}

```

```

private void effacer() {
    edM.setText("");
    spT.setSelection(0);
    seekP.setProgress(4);
    rdE.setChecked(true);
    edM.requestFocus();
}

private void vider() {
    AlertDialog.Builder b = new AlertDialog.Builder(this);
    b.setTitle("Vider?");
    b.setMessage("Etes vous sûr de vider la liste?");
    b.setPositiveButton("Oui", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface arg0, int arg1) {
            adpA.clear();
        }
    });
    b.setNegativeButton("Non", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {

        }
    });
    AlertDialog alertDialog = b.create();
    alertDialog.show();
}

private void afficher(int position) {
    Automobile a=adpA.getItem(position);
    String m="";
    m="Matricule: "+a.getMatricule()+"\n"+"Prix vignette: "+a.getPrix();
    Toast.makeText(this, m, Toast.LENGTH_LONG).show();
}
}

```