



Course Name & Section OOP

Date 26/3/24

Student's Name Ali Numan

Roll No. 2310839 Section 20

Q / Part No.

Rough  
Work

Group A

2+1+0.5+1+2.5+0

```
#include <iostream>
using namespace std;
```

```
class Car {
```

```
private:
```

```
static char* name;
```

```
int top-speed;
```

```
bool electric;
```

```
static int total-Cars;
```

```
public:
```

```
void Set
```

```
void Set values ( )
```

```
{
```

```
Car::Car (name)
```

```
{
```

```
name = "Ali";
```

```
Car (char* nam = "Ali", int top-S = 90, bool is-electric = True)
```

```
{ name = new char[40];
```

```
name = nam;
```

```
top-speed = top-S;
```

```
electric = is-electric; totalCars++
```

```
}
```

```
~Car ( )
```

```
{
```

```
delete [] name;
```

```
name = nullptr;
```

```
}
```

```
static void Update total-Car ( )
```

```
{
```

```
totalCars = 0;
```



```

total_cars ++;
}
Car operator = (const Car & rhs)
{
Car (const Car & rhs)
{
    *name = rhs.name *rhs.name; X
    top_speed = rhs.top_speed;
    electric = rhs.electric;
} total_cars ++
Car operator = (const Car & rhs)
{
    *This.name = *rhs.name;
    This.name = rhs.name; ✓
    top_speed name top_speed = rhs.top_speed; ✓
    electric = rhs.electric; return
}
Car operator ++ (Car

```

```

Up grade Car (const Car & rhs)
{
    top_speed top_speed = rhs. X

```