Findings:

1. *Task 1:*

The monthly spend of each customer in each year is given in Folder Results -> monthly_spending.csv

2. *Task 2:*

The monthly repayment of each customer in all years in given in Folder Results -> monthly_repayment.csv

3. *Task 3:*

The highest 10 paying customers are ones with the following IDs

A22
A40
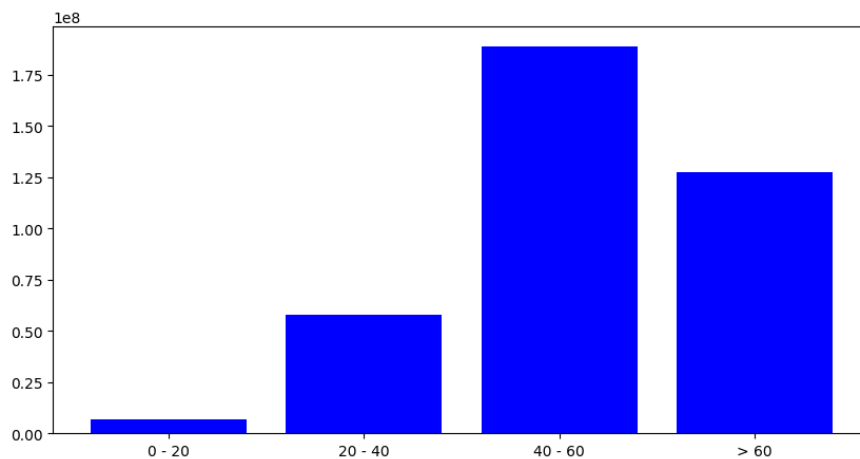A60
A61
A48
A42
A41
A39
A45
A13

4. *Task 4:*

Segment wise distribution of spending:

As evident from the graph, the Normal Salary segment spends the most.
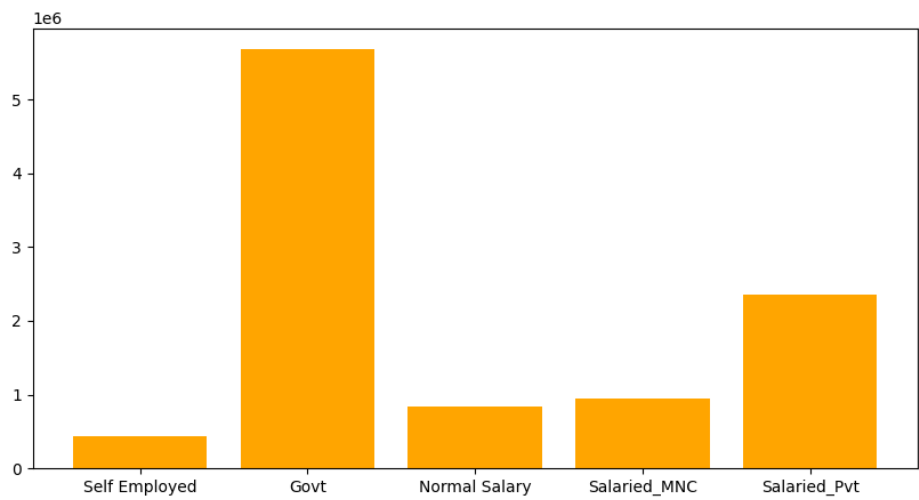
5. *Task 5:*

Age group-wise spending of customers:

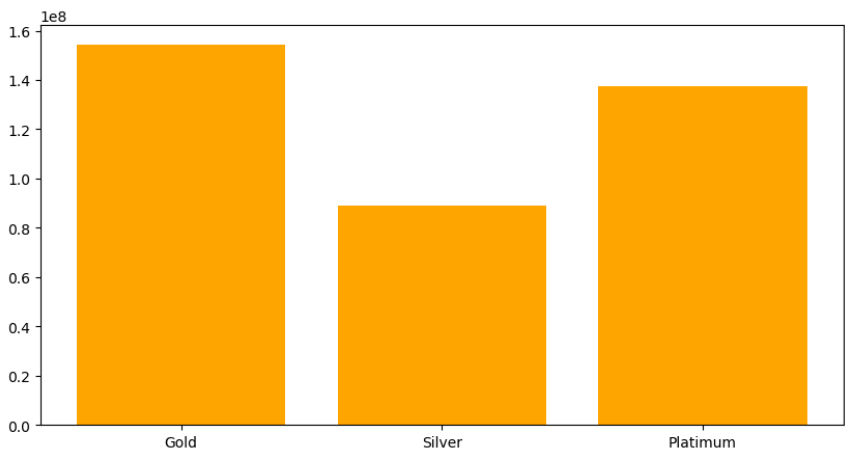As evident from the graph, the age group (40 – 60) spends the most.

6. *Task 6:*

Pending amount of all segments:

Hence the *government* segment is most profitable since they spend more than they repay.

7. *Task 7:*

Category wise spending of money:

Hence gold category spends the most amount.

8. After imposing a 2.9% for each customer, we get the following results:

```
A0  0.0
A1  -1056120.9177687308
A2  515842.5598168882
A3  -839787.6949634642
A4  -632057.5671601855
A5  317581.9977283878
A6  490598.0067502462
A7  -427570.24283538107
A8  -440046.35166509217
A9  -638463.4905194641
A10 1151991.596303845
A11 157824.31598720918
A12 745168.3508132517
A13 -126333.29128917509
A14 -482452.7774303196
A15 -711428.2158124017
A16 -1445526.3580745484
A17 -1185517.7305702996
A18 364934.4972701612
A19 195908.4352050816
A20 -426629.0485558157
A21 -1392622.56461533
A22 133103.21965016652
```

```
A23 -2430030.017197288
A24 -1460332.475364436
A25 -1640789.3661552744
A26 99963.1792402299
A27 38046.44035857443
A28 -312373.73173844034
A29 600670.5544958877
A30 -332276.69784446707
A31 1562476.8648789441
A32 -381573.2662254349
A33 367543.9547003981
A34 -772054.9252054248
A35 752286.8443001771
A36 -1012836.7845707342
A37 -295792.8864601631
A38 -216683.84768381112
A39 -513574.51764118654
A40 -812863.2886464742
A41 -215561.69773179322
A42 -2429192.3616426573
A43 2313035.199675859
A44 217128.6185041514
A45 -394521.0668751359
A46 1006527.6370149462
A47 1887418.384126568
A48 -641940.313191038
A49 974857.0262883005
A50 -975077.5933229
A51 161200.4224607289
A52 794985.9624410092
A53 1552777.9466685741
A54 -1417751.5720177605
A55 -1120385.6194679847
A56 1734196.9737160064
A57 80612.2046577004
A58 -222825.63111456684
A59 -1235584.3109782112
A60 -57252.6797348903
A61 -350456.09389977757
A62 978572.7687060453
A63 -907837.2727147276
A64 465858.4904644459
A65 -442549.65030946676
A66 613640.9255827912
A67 -372101.47727020737
A68 -166411.04596563987
A69 386878.37448726094
A70 623509.8176348874
A71 -278469.92491464684
A72 -318613.1908915971
A73 -173389.5357807123
A74 36874.10613569284
A75 209352.3734882495
A76 389686.3587098993
A77 -234101.5556888836
A78 -121247.41115983727
A79 210929.93732860434
A80 -24359.057518766327
A81 184166.02936697696
A82 237280.32624919922
A83 265603.64700179256
A84 304446.7966372872
A85 -30242.831494756407
A86 207475.17113168965
A87 -420058.94507890486
A88 160001.580761697
A89 -367639.5542216429
A90 -364917.55182468164
```

```
A91  192405.64683432953
A92  123664.29514457117
A93  -300897.25027969264
A94  -191120.6788407851
A95  -280633.3945272609
A96  -216321.03267462362
A97  10574.364163147107
A98  10618.340526224138
A99  -120835.94570843602
A100 112044.92925283677
```