

```
import pandas as pd
```

```
def calculate_demographic_data(print_data=True):
```

```
    # Read data from file
```

```
    df = pd.read_csv("adult.data.csv")
```

```
    # 1. How many people of each race are represented in this dataset?
```

```
    race_count = df['race'].value_counts()
```

```
    # 2. What is the average age of men?
```

```
    average_age_men = round(df[df['sex'] == 'Male']['age'].mean(), 1)
```

```
    # 3. What is the percentage of people who have a Bachelor's degree?
```

```
    total_people = len(df)
```

```
    bachelors_count = len(df[df['education'] == 'Bachelors'])
```

```
    percentage_bachelors = round((bachelors_count / total_people) * 100, 1)
```

```
    # 4. % with advanced education making >50K
```

```
    higher_education = df[df['education'].isin(['Bachelors', 'Masters', 'Doctorate'])]
```

```
    lower_education = df[~df['education'].isin(['Bachelors', 'Masters', 'Doctorate'])]
```

```
    higher_education_rich = round(
```

```
        (len(higher_education[higher_education['salary'] == '>50K']) / len(higher_education)) *  
        100, 1
```

```
    )
```

```
lower_education_rich = round(  
    (len(lower_education[lower_education['salary'] == '>50K']) / len(lower_education)) * 100, 1  
)
```

5. What is the minimum number of hours a person works per week?

```
min_work_hours = df['hours-per-week'].min()
```

6. % of people working min hours and earning >50K

```
min_workers = df[df['hours-per-week'] == min_work_hours]  
rich_min_workers = min_workers[min_workers['salary'] == '>50K']  
rich_percentage = round((len(rich_min_workers) / len(min_workers)) * 100, 1)
```

7. Country with highest % of people earning >50K

```
country_counts = df['native-country'].value_counts()  
rich_country_counts = df[df['salary'] == '>50K']['native-country'].value_counts()  
rich_country_percentages = (rich_country_counts / country_counts) * 100  
highest_earning_country = rich_country_percentages.idxmax()  
highest_earning_country_percentage = round(rich_country_percentages.max(), 1)
```

8. Most popular occupation for those who earn >50K in India

```
top_IN_occupation = df[  
    (df['native-country'] == 'India') & (df['salary'] == '>50K')  
]['occupation'].value_counts().idxmax()
```

Output dictionary

```
if print_data:
```

```

print("Number of each race:\n", race_count)

print("Average age of men:", average_age_men)

print("Percentage with Bachelors degrees:", percentage_bachelors)

print("Percentage with higher education that earn >50K:", higher_education_rich)

print("Percentage without higher education that earn >50K:", lower_education_rich)

print("Min work time:", min_work_hours)

print("Percentage of rich among those who work fewest hours:", rich_percentage)

print("Country with highest percentage of rich:", highest_earning_country)

print("Highest percentage of rich people in country:",
highest_earning_country_percentage)

print("Top occupations in India:", top_IN_occupation)


return {
    'race_count': race_count,
    'average_age_men': average_age_men,
    'percentage_bachelors': percentage_bachelors,
    'higher_education_rich': higher_education_rich,
    'lower_education_rich': lower_education_rich,
    'min_work_hours': min_work_hours,
    'rich_percentage': rich_percentage,
    'highest_earning_country': highest_earning_country,
    'highest_earning_country_percentage': highest_earning_country_percentage,
    'top_IN_occupation': top_IN_occupation
}

```