

Assessment: Exercise 1.3

Outcomes Variables

Loops

Decision making

Assessor T. Mkwaira

- This assessment does not count for marks
- This assessment will not be marked.
- You are required to submit this assessment on MS Teams.

COMPLETE THE FOLLOWING TASKS:

1. Write a program to create the following output:

```
-1-
-2--4-
-3--6--9-
-4--8--12--16-
-5--10--15--20--25-
-6--12--18--24--30--36-
-7--14--21--28--35--42--49-
-8--16--24--32--40--48--56--64-
-9--18--27--36--45--54--63--72--81-
-10--20--30--40--50--60--70--80--90--100-
-11--22--33--44--55--66--77--88--99--110--121-
-12--24--36--48--60--72--84--96--108--120--132--144-
-13--26--39--52--65--78--91--104--117--130--143--156--169-
-14--28--42--56--70--84--98--112--126--140--154--168--182--196-
```

2. Write a program to calculate income tax for the given income by using the SARS income tax table below:

RATES OF TAX FOR INDIVIDUALS

2021 tax year (1 March 2020 - 28 February 2021)

Taxable income (R)	Rates of tax (R)
1 – 205 900	18% of taxable income
205 901 – 321 600	37 062 + 26% of taxable income above 205 900
321 601 – 445 100	67 144 + 31% of taxable income above 321 600
445 101 – 584 200	105 429 + 36% of taxable income above 445 100

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584 201 – 744 800	155 505 + 39% of taxable income above 584 200
744 801 – 1 577 300	218 139 + 41% of taxable income above 744 800
1 577 301 and above	559 464 + 45% of taxable income above 1 577 300

3. Write a program that finds the first 11 prime numbers. A prime number is a whole number greater than 1 that is not a product of two smaller numbers, for example 3 is a prime number but 4 is not.