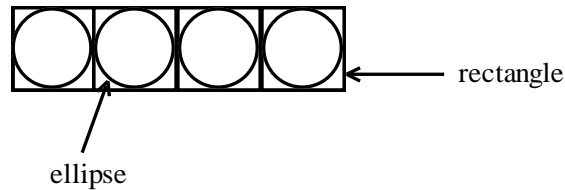


- b) Explain with example : 8
- i) line () ii) circle ()
- iii) rectangle () iv) set color ()

OR

8. a) Explain initgraph (), getmaxx () and getmaxy () graphic function in detail with example. 6
- b) Write a program to display below image on screen. 8



Assume suitable data as parameter for graphic function.

9. a) Using mathematical induction, prove that 7
- $$1^3 + 2^3 + 3^3 + \dots + n^3 = \left[\frac{n(n+1)}{2} \right]^2.$$
- b) What is Algorithm? Explain properties of an Algorithm? 6

OR

10. a) List and explain various computational model in detail. 7
- b) Differentiate between entry control and exit control loop with example. 6
11. a) What is OOP? Explain its features in detail. 6
- b) Declare a structure bank with fields ACC-no, name, ACC-type, balance. Write a program to create at least 20 account in a bank and display complete detail available in bank. 7

OR

12. a) Differentiate between procedural and object oriented programming. 6
- b) Write short notes on :
- i) Time complexity. 4
- ii) Space complexity. 3
