FINITELY GENERATED ALGEBRAS OVER A FIELD

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1) Let R be a finitely generated algebra over F such that every irreducible R -module M has $\text{End}_R M$ algebraic over F . What can you say about R ring-theoretically?

2) Let D be a division algebra over F which is finitely generated. Is $[D:F] < \infty$? If F is non-denumerable, then D is algebraic over F .