**Task 3 Search**

Main(){

//q1 search

//print(factoryal(num: 5));

//q2 search

//validate\_password(password: "xX50q\*&3a5c");

//q3 search

employe ali=employe();

print(ali.type);

ali.name="Ali ahmed";

print(ali.name);

ali.Position="manager";

print(ali.Position); //class employee extend human & person

//another way using implement

employee amr=employee();

print(amr.type);

print(amr.name);

print(amr.salary);

}

//search 1

//recursion

double factoryal({

required double num

})

{

if(num==1){

return 1;

}else{

return num\*factoryal(num: num-1);

}

}

//q2 search

void validate\_password({required String password}){

RegExp passregex=RegExp("^(?=.\*?[A-Z])(?=.\*?[a-z])(?=.\*?[0-9])(?=.\*?[#?!@\$%^&\*-]).{8,}\$");

if(passregex.hasMatch(password))

print("Password is valid");

else

print("Password is not valid");

}

//q3 search

class human{

String? type="human";

String? home="Earth";

}

class Person extends human{

String? name;

double? height;

int? age;

}

class employe extends Person{

String? Position;

double? salary;

int? kdi;

}

//-----------------------------------

class humann{

String? type="human";

String? home="Earth";

}

class Personn {

String? name;

double? height;

int? age;

}

class employee extends Person implements humann{

String? Position;

double? salary;

int? kdi;

String? type="human";

String? home="Earth";

}

//-----------------------------------