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Excersies :- 01
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1)Write a program that computes the perimeter and the area of a rectangle.
Define your own values for the length and width.
(Assuming that L and W are the length and width of the rectangle, Perimeter = 2*(L+W) and Area = L*W.)
ANS:-
====

```
create table a_p
(
  area float(7,2),
  peri float(7,2)
);

delimiter ?
create procedure x1()
begin
declare l float(7,2) default 10;
declare w float(7,2) default 10;
declare area float(7,2);
declare peri float(7,2);
set peri=2*(l+w);
set area=l*w;
insert into a_p values(area, peri);
end;?
delimiter ;
```

Output:->

```
# area, peri
100.00, 40.00
```

Q2)Write a program that declares an integer variable called num, assigns a value to it, and computes and inserts into the tempp table the value of the variable itself, its square, and its cube.

ANS:-
=====

```
create table tempp
(
   num int(10),
   sq  int(10),
   cube int(10)
 );

 delimiter @
create procedure Q2()
begin
```

```
declare num int(10) default 5;
declare sq int(10);
declare cube int(10);
set sq=num*num;
set cube=num*num*num;
insert into tempp values(num,sq,cube);
end;@
delimiter ;

call Q2;
select * from tempp;
```

Output:->

```
---------
# num, sq, cube
   5, 25, 125
```

Q3)Convert a temperature in Fahrenheit (F) to its equivalent in Celsius (C) and vice versa.
The required formulae are:- C= (F-32)*5/9
F= 9/5*C + 32

ANS:-

======

```
create table Q3
(
 cel float(7,2),
 far float(7,2)
 );

  delimiter $
create procedure Q3()
begin
declare cel float(7,2) default 2 ;
declare far float(7,2) default 2;
declare temp float(7,2) default 2;
set cel = (far-32)*5/9;
set far= (9/5)*temp + 32;
insert into Q3 values(cel,far);
end;$
delimiter ;

call Q3();
select * from Q3;
```

Output:->

```
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# cel, far
-16.67, 35.60
```

Q4) Convert a number of inches into yards, feet, and inches. For example, 124 inches

equals 3 yards, 1 foot, and 4 inches.
ANS:-
======

```
create table Q4(
input int(4),
yards int(4),
foot int(4),
inches int(4)
);

delimiter //
create procedure Q4 (inch int)

begin

declare yard int(4);
declare foot int(4);
declare inches int(4);
set yard =inch/36 ;
set foot= (inch % 36) / 12;
set inches = inch -((foot*12)+(yard*36));
insert into Q4 values (inch,yard,foot,inches);


end;//
delimiter ;


call Q4(124);

select* from Q4;
```

Output:->
---
input, yards, foot, inches
124, 3, 1, 4

Q5) Write a program that enables a user to input an integer. The program should then state whether the integer is evenly divisible by 5.
ANS:-
=====

```
create table Q5(
a int (4),
b char (10)
);


delimiter %
create procedure Q5()
```

```
begin
declare a int(4) default 10;
declare b char (10) ;

if (a mod 5 = 0)  then

   insert into Q5 values (a, 'yes');
else
 insert into Q5 values (b, 'No');
end if;
end; %
delimiter ;

call Q5();

select * from Q5;
```

Output:->

Q6) Your block should read in two real numbers and tell whether the product of the two numbers is equal to or greater than 100.

ANS:-

=====>

```
create table Q6(
s char (10),
g char (10)
);

delimiter $

create procedure Q6(p int, q int)
begin
declare  s int(4);
declare  g int (4);
if ( p * q <= 100) then
   insert into Q6 values ( p*q , 'smaller');
else
   insert into Q6  values ( p*q , 'greater');
end if;
end; $
delimiter ;


call Q6(5, 5);
select * from Q6;
```

```
call x1();

select * from a_p;
```