

INT 105

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while (x == '}' ox x == 'y')

Rdl No: RM2041AOI

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ODD Roll Numbers

Q1 You have to write a menu-driven programme to create a bill for the Hernica) selected by the uses keep asking the user for selecting available item with their price list until the user inputs N' for no. Do this with the help of while loop and switch statement. Finally, you have to display the bill amount of all those selected items Sun = # include < stdio. h> int main () int i, a, b, c, d, e, f, g, p=0, q=0, x=0, s=0, t=0, u=0, v=0, bill; chax x y 1 pxintf ("1. Sigax = Ra 37 pex kg"); posint/ ("In 2. Rice = R=62 pex kg"); printf ("In 3. Chikpeas = Rs 82 pex kg"); print ("In 4. Walnut = Ro 400 per pack of 500 gm"); printf ["In 5. Almord = Rs 600 per pack of 250 gm"); print("In 6. Mustored oil = Rs 115 per pack of 1.1t"); print ("In 7. Wheat flour = Rs 250 per pack of 10 kgs"); printf ("In If you wish to by press Y if not then press N: ");

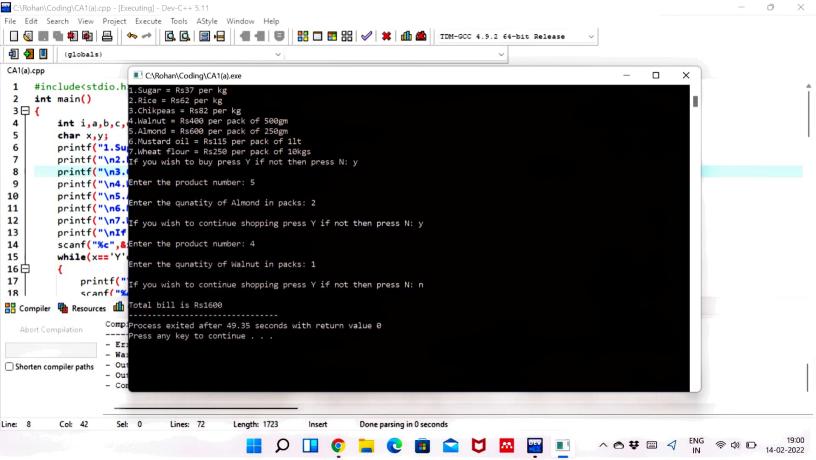


```
posing ("In Entex the product number: ");
scare ("1-d", &i);
Avitch (i)
 core 1:
    pointf ("In Enter the quantity of Sigax in Kgs: ");
    scart ("Y.d", &a);
   p = a* 37;
   break;
 case 2:
   printf ("In Enter the quantity of Rice in kgs: ");
   xay ("/d" &b);
   Q= b* 62;
   bæak i
cox 3:
   point ("In Enter the quantity of Chikpens in kgs: ");
  sang ("%d" &c);
   x= c* 82 ;
   break;
core 4:
  points ("In Entox the quantity of Walnut in packs: ");
  xay ("7.d", &d);
  s=d* 400;
   beak i
case 5:
   print ("In Enter the quartity of Almord in packs: ");
  scant ("/d" se);
  t= e* 600;
   break i
 cose 6:
```



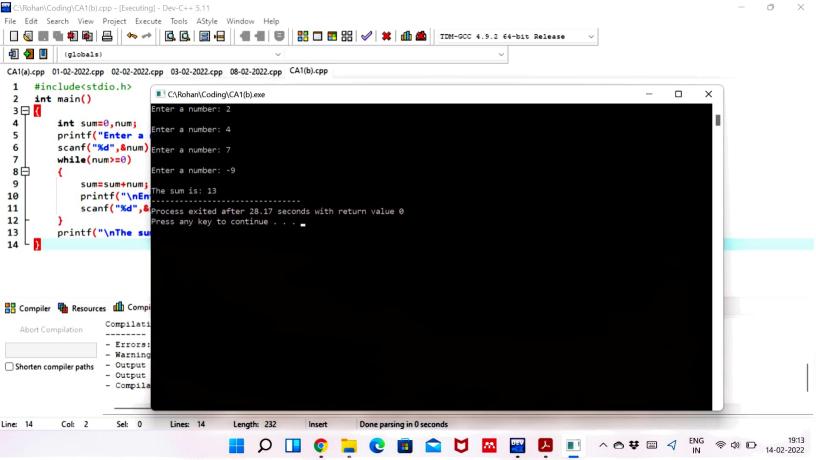
```
pointf ("In Entex the quantity of Mustaxd oil in packs: ");
   manf ("Y-d", lef);
   U= 1+ 115;
   break?
cone 7:
   party ("In Enter the quantity of Wheat flow in packs: ");
 xon ("1-d", &g);
  v= g + 250;
    break;
default:
prints ("In Invalid Input");
points ("In If you wish to continue shapping pieces Y if not then pieces N: "); accord ("In Y.C", & y); if (y = = 'y') ox y = = 'y')
else
 x='N';
bill = ptg + x+x+++ u + v;

pomy("\n Total bill is Rs/d", bill);
}
```





03:	When will the "while' loop be preferred over the for loop? Mention the
	scenario and write the programme to demonstrate this.
Soln =	While loop is preferred over the for loop when we don't know the end
	coordit number of times the loop may sen. For example, program to
	calculate the sum of numbers until user inputs a regative number
	# include < stdio.h>
	int main ()
	2
	int rum = 0, num;
	print (" Enter a rumber: ");
	scary ("-1-d" & rum);
	while $(num \ge 0)$
	· Ş
	sum = sum t num i
	print(["In Entex or number: ");
	scort ("v.d" & num);
	printf ("In the sum is: Yd", sum);
	2







Q3: Pans your marks of CA-1, CA-2, and CA-3, of covere, INTIO2 to the function with header high (float, float, float). Write a function that should seturn the highest CA marks.

" include < stdio. h> float max (float a float b, float c);

float max (float a float b float c).

float highest i of (a>b and a>c) highest = a i else 4 (b>c)

highest = b else

highest = c; return highest;

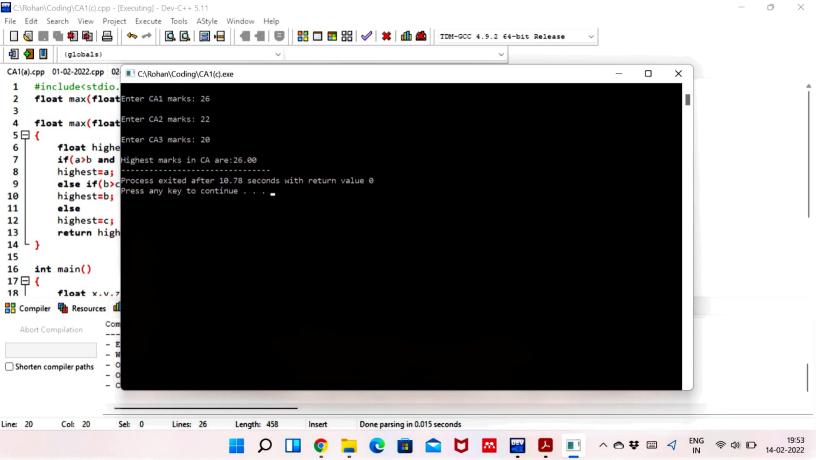
int main ()

Moat (xy, z); print (" In Eyer CA1 mades: may (" Y.f", & x); print ("In Enter CA2 marks:

xcorp (" y. 1" 1, & y);

printy ("In Enter (A3 maxin: "); scar ("+.1" &z);

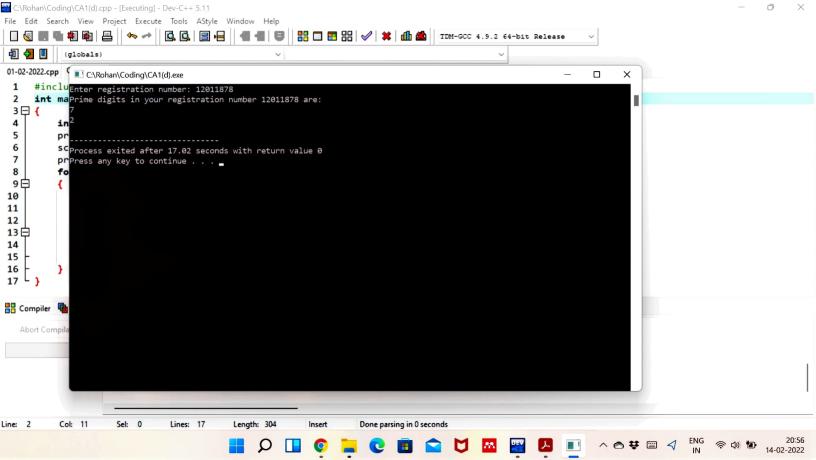
pointfl" In Highest marks in (A are: Y.O.24", more (x,y,z));







```
Q4.
  a) Take input of your registration number in the University using appropriate
       data type. Write a programme to print all the prime number digits, each in a new line in your registration number.
        # include < stduo b>
       int main ()
          bound ("Enter redistriction umper: ");
         scar (" /.d" & rum);
          point ("Prime digits in your segistration number vid are: \n" num):
          fox (i=0; i28;; i++)
            x= rum 7-10/
            rum = rum/loi
            4(x=2) or x=3 or x=5 or x=7)
            pontf ("Y.d\n" x);
```





b) Input numbers from the west and find the product of all those input numbers until the user inputs a regative number. In other means, the loop should end when the user enters a regative number. Finally, dubplay the product of all those positive numbers entered by the user.

Sob = # include < sidio. h?

int main()

s

int product = 1, rum;

points (* Enter a number: ");

int product = 1, rum;

point ("Enter a number: ");

scart (" * 1, & rum);

shite (rum >=>=0)

S

produt = ordut * rum;

produt = produt * num;

produt = produt * num;

produt = produt * num;

grant ("In the product is: Y.d.", product);

