**PROGRAMMING IN C**

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***1 . Addition of two numbers***

* ALGORITHM

STEP 1 :INPUT N1,N2

STEP 2 :ANSWER = N1+N2

STEP 3 : PRINT ’’ANSWER’’

* FLOWCHART

START

INPUT N1,N2

ANSWER= N1+N2

PRINT “ANSWER”

STOP

***2. Finding a number odd or even***

* ALGORITHM

STEP 1 : INPUT N1

STEP 2 : CHECK IF N%2==0

STEP 3 : PRINT : ‘’N IS AN EVEN NUMBER’’

ELSE

PRINT : ‘’N IS AN ODD NUMBER’’

ENDIF

* FLOWCHART

START

INPUT N1

YES

NO

CHECK IF N%2==0

PRINT ‘’N IS AN EVEN NUMBER’’

PRINT ‘’N IS AN ODD NUMBER’’

MBER

STOP

***3. ATM MACHINE***

* ALGORITHM

STEP 1 : INPUT PIN

STEP 2 : IF PIN IS TRUE

THEN

PRINT ‘’SUCCESS PROCEED TO WITHDRAW YOUR MONEY’’’

ELSE

PRINT “RETRY YOUR CODE’’

STEP 3 : INPUT PIN AGAIN

STEP 4 : IF PIN IS TRUE

THEN

PRINT ‘’SUCCESS PROCEED TO WITHDRAW YOUR MONEY’’

ELSE

PRINT “ NO MORE RETRIES REMAINING ‘’

* FLOWCHART

START

INPUT PIN

NO

YES

IF PIN IS CORRECT

PRINT “SUCCESS’’

PRINT “RETRY YOUR PIN’’

INPUT PIN AGAIN

IF PIN IS CORRECT

PRINT”NO MORE RETRIES REMAINING’’

PRINT “SUCCESS’’

STOP

***4. FIND MAX VALUE FROM THE GIVEN TWO VALUES***

* ALGORITHM

STEP 1 : INPUT VALUE1,VALUE2

STEP 2 :DECLARE MAX

STEP 2 : IF VALUE1 > VALUE2 IS TRUE

THEN

MAX=VALUE1

ELSE

MAX=VALUE2

ENDIF

STEP 3 : PRINT ‘’THE LARGEST VALUE IS’’ MAX

* FLOWCHART

START

INPUT VALUE1,VALUE2

DECLARE MAX

YES

NO

IF VALUE1>VALUE2

MAX= VALUE2

MAX= VALUE1

PRINT ‘’THE LARGEST VALUE IS MAX’’

STOP

***5.CONVERSION OF FAHRENHEIT TO CELSIUS***

* ALGORITHM

STEP 1 : INPUT F

STEP 2 : C=[5+(F-32)]/9

STEP 3 : PRINT C

* FLOWCHART

START

INPUT F

C=[5+(F-32)]/9

PRINT ‘’C’’

STOP

***6.FIND MAX VALUE FOR 3 NUMBERS***

* ALGORITHM

STEP 1 : INPUT N1,N2,N3

STEP 2 : IF N1>N2 IS CORRECT AND N1>N3 IS CORRECT

THEN N1 IS MAX

STEP 3 : IF N1>N2 IS INCORRECT AND N2>N3 IS CORRECT

THEN N2 IS MAX

STEP 4 : IF N1>N2 IS CORRECT AND N2>N3 IS INCORRECT

THEN N3 IS MAX

STEP 5 : IF N1>N2 IS INCORRECT AND N2>N3 IS INCORRCT

THEN N3 IS MAX

* FLOWCHART

START

INPUT N1,N2,N3

NO

YES

IF N1>N2 IS CORRECT

NO

YES

YES

NO

IF N2>N3 IS CORRECT

IF N1>N3 IS CORRECT

PRINT “N2 IS MAX’’

PRINT ‘’N3 IS MAX’’

PRINT ‘’N1 IS MAX’’

STOP

***7.QUADRATIC EQUATION***

* ALGORITHM

STEP 1 : INPUT A,B,C

STEP 2 : CALCULATE D=POW(B\*B-4\*A\*C)0.5

STEP 3 : IF D>0 IS TRUE THEN

RESULT=ROOTS ARE REAL

ELSE

RESULT=ROOTS ARE IMAGINARY

STEP 4 : CALCULATE X1=(-B+D)/2\*A

X2=(-B-D)/2\*A

STEP 5 : PRINT ‘’X1,X2 AND’’ RESULT

* FLOWCHART

START

INPUT A,B,C

CALCULATE D=POW(B\*B-4\*A\*C)0.5

YES

NO

IF D>0 IS TRUE

RESULT=ROOTS ARE IMAGINARY

RESULT= ROOTS ARE REAL

CALCULATE

X1=(-B+D)/2\*A X2=(-B-D)/2\*A

CALCULATE

X1=(-B+D)/2\*A

X2=(-B-D)/2\*A

PRINT “X1 ,X2 AND’’ RESULT

PRINT “X1 ,X2 AND’’ RESULT

STOP

***8.CONVERSION OF CELSIUS TO FAHRENHEIT***

* ALGORITHM

STEP 1 : INPUT C

STEP 2 : F=(C\*9/5)+32

STEP 3 : PRINT F

* FLOWCHART

START

INPUT C

F=(C\*9/5)+32

PRINT F

STOP

***9.Admission in Bhagubhai Mafatlal Polytechnic***

* ALGORITHM

STEP 1 : INPUT CANDIDATE’S DETAILS

STEP 2 : VERIFY CANDIDATE’S DETAILS

STEP 3 : IF CANDIDATE’S DETAILS ARE TRUE THEN

GENERATE CANDIDATE’S LOGIN ID

ELSE

PRINT ‘’ERROR CHECK YOUR DETAILS AGAIN’’

STEP 4 : INPUT PASSWORD FOR GENERATED LOGIN ID

STEP 5 : STORE THE CANDIDATE’S LOGIN ID AND PASSWORD IN THE DTE PORTAL

STEP 6 : PRINT “LOGIN AGAIN USING THE LINK GIVEN BELOW’’

STEP 7 : GENERATE THE LINK

STEP 8 : INPUT LOGIN ID AND PASSWORD

STEP 9 : INPUT YOUR CARD DETAILS

STEP 10 :INPUT YOUR CVV NUMBER

STEP 11 :VERIFY CARD DETAILS AND CVV NUMBER

STEP 12 :IF CARD DETAILS AND CVV NUMBER ARE TRUE THEN

PRINT “PROCEED TO FILL CAP ROUND 1”

ELSE

PRINT “TRANSACTION FAILED CHECK YOUR CARD DETAILS AND CVV NUMBER

AGAIN”

STEP 13 : INPUT THE REQUIRED DOCUMENTS

STEP 14 : VERIFY THE DOCUMENTS

STEP 15 : IF THE GIVEN DOCUMENTS ARE VERIFIED

THEN PRINT “PROCEED TO FILL ADMISSION DETAILS”

ELSE

PRINT “ERROR CHECK YOUR DOCUMENTS AGAIN”

STEP 16 :INPUT THE DESIRED COLLEGES FOR ADMISSION

STEP 17 :ARRANGE THEM IN ORDER OF CANDIDATE’S PREFERENCES

STEP 18 :STORE ALL CANDIDATE’S DETAILS ON DTE PORTAL

STEP 19 :INPUT LOGIN ID PASSWORD

STEP 20 :GENERATE A LINK FOR CAP ROUND 1 RESULT :STEP 21 : THEN

PRINT”CONGRATULATIONS YOU HAVE BEEN A ALLOTED A SEAT IN YOUR

DESIRED COLLEGE ”

ELSE

PRINT”SORRY WAIT FOR CAP ROUND 2”

START

INPUT CANDIDATE’S DETAILS

VERIFY CANDIDATE’S DETAILS

YES

NO

IF CANDIDATE’S DETAILS ARE TRUE

PRINT ‘’ERROR CHECK YOUR DETAILS AGAIN’’

GENERATE CANDIDATE’S LOGIN ID

INPUT PASSWORD FOR GENERATED LOGIN ID

A

STORE THE CANDIDATE’S LOGIN ID AND PASSWORD IN THE DTE PORTAL

PRINT “LOGIN AGAIN USING THE LINK GIVEN BELOW’’

GENERATE THE LINK

INPUT LOGIN ID AND PASSWORD

INPUT YOUR CARD DETAILS

INPUT YOUR CVV NUMBER

D

D

VERIFY CARD DETAILS AND CVV NUMBER

NO

YES

IF CARD DETAILS AND CVV NUMBER ARE TRUE

PRINT “TRANSACTION FAILED CHECK YOUR CARD DETAILS AND CVV NUMBER

AGAIN”

PRINT “PROCEED TO FILL CAP ROUND 1”

B

INPUT THE REQUIRED DOCUMENTS

E

E

VERIFY THE DOCUMENTS

NO

YES

IF THE GIVEN DOCUMENTS ARE VERIFIED

PRINT “ERROR CHECK YOUR DOCUMENTS AGAIN”

PRINT “PROCEED TO FILL ADMISSION DETAILS”

C

INPUT THE DESIRED COLLEGES FOR ADMISSION

F

F

ARRANGE THEM IN ORDER OF CANDIDATE’S PREFERENCES

STORE ALL CANDIDATE’S DETAILS ON DTE PORTAL

INPUT LOGIN ID PASSWORD

GENERATE A LINK FOR CAP ROUND 1 RESULT

G

G

YES

NO

IF CANDIDATE HAS AQUIRED SEAT IS TRUE

PRINT”CONGRATULATIONS YOU HAVE BEEN A ALLOTED A SEAT IN YOUR DESIRED COLLEGE ”

PRINT”SORRY WAIT FOR CAP ROUND 2”

B

A

C

STOP

***10 . Subraction of two numbers***

* ALGORITHM

STEP 1 :INPUT N1,N2

STEP 2 :ANSWER = N1-N2

STEP 3 : PRINT ’’ANSWER’’

* FLOWCHART

START

INPUT N1,N2

ANSWER= N1-N2

PRINT “ANSWER”

STOP

***10 .Product of two numbers***

* ALGORITHM

STEP 1 :INPUT N1,N2

STEP 2 :ANSWER = N1\*N2

STEP 3 : PRINT ’’ANSWER’’

* FLOWCHART

START

INPUT N1,N2

ANSWER= N1\*N2

PRINT “ANSWER”

STOP

***10 .Division of two numbers***

* ALGORITHM

STEP 1 :INPUT N1,N2

STEP 2 :ANSWER = N1/N2

STEP 3 : PRINT ’’ANSWER’’

* FLOWCHART

START

INPUT N1,N2

ANSWER= N1/N2

PRINT “ANSWER”

STOP